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1-ARRAY LIST

AIM:

Using C# Programming, develop the program, which implements the properties and methods in Array List.

SOURCE CODE:

```
using System;
using System.Collections;

namespace ArrayClass
{
    class Arraylisteg
    {
        static void display(ArrayList array)
        {
            Console.WriteLine("Length of the Array List are {0}", array.Count);
            Console.WriteLine("Elements in an Array are ...");
            foreach(var elements in array)
            {
                Console.WriteLine(elements);
            }
        }
        static void addIndividual(ArrayList array)
        {
            Console.Write("Enter the Element to Add :");
            array.Add(Console.ReadLine());
            Console.WriteLine("Element Added Successfully");
        }
        static void addRange(ArrayList array)
        {
            Console.Write("Enter the n value :");
            int n = Convert.ToInt32(Console.ReadLine());

            Array ar = Array.CreateInstance(typeof(string), n);

            for (int i = 0; i < n; i++)
            {
                Console.Write("Enter the Values:");
                ar.SetValue(Console.ReadLine(), i);
            }

            array.AddRange(ar);
            Console.WriteLine(" Values Inserted in Array List Successfully");
        }
        static void insertElement(ArrayList array)
        {
            Console.Write("Enter the location to Insert:");
            int n = Convert.ToInt32(Console.ReadLine());
            if (n > array.Count)
            {
                Console.WriteLine("Not Sufficient Space to Insert :");
            }
        }
    }
}
```

```

    }
    else
    {
        Console.WriteLine("Enter the Value to Insert :");
        string value = Console.ReadLine();
        array.Insert(n, value);
        Console.WriteLine(" Values Inserted in Array List Successfully");
    }
}
static void insertRange(ArrayList array)
{
    Console.WriteLine("Enter the number of items to insert :");
    int n = Convert.ToInt32(Console.ReadLine());
    Array ar = Array.CreateInstance(typeof(string), n);

    Console.WriteLine("Enter the Location to Insert:");
    int loc = Convert.ToInt16(Console.ReadLine());
    if (loc >= array.Count)
    {
        Console.WriteLine("Not Sufficient Space to Insert :");
    }
    else
    {
        for (int i = 0; i < n; i++)
        {
            Console.WriteLine("Enter the Value to Insert :");
            ar.SetValue(Console.ReadLine(), i);
        }

        array.InsertRange(loc, ar);
        Console.WriteLine(" Values Inserted in Array List Successfully");
    }
}
static void removeIndividual(ArrayList array)
{
    string value;
    Console.WriteLine("Enter the Element to Remove");
    value = Console.ReadLine();

    array.Remove(value);
    Console.WriteLine("Element Deleted Successfully");
}
static void removeRange(ArrayList array)
{
    Console.WriteLine("Enter the starting index :");
    int loc = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter the no of elements to Delete:");
    int n = Convert.ToInt16(Console.ReadLine());
    if ((loc+n)>= array.Count)
    {
        Console.WriteLine("Not Sufficient Space to Delete :");
    }
    else
    {
        array.RemoveRange(loc, n);
        Console.WriteLine(" Values Deleted in Array List Successfully");
    }
}
static void removeLoc(ArrayList array)
{
    Console.WriteLine("Enter the Location to Delete");
}

```

```

        int loc = Convert.ToInt16(Console.ReadLine());

        if (loc < array.Count)
        {
            array.RemoveAt(loc);
            Console.WriteLine("Element Deleted Successfully:");
        }
        else
        {
            Console.WriteLine("Not Sufficient Space to Delete :");
        }
    }
}

static void Search(ArrayList array)
{
    Console.Write("Enter the Element to Search :");
    string value = Console.ReadLine();

    if (array.Contains(value))
    {
        Console.WriteLine("Element Found Successfully ");
    }
    else
    {
        Console.WriteLine("Element Not Found ");
    }
}

static void indexvalue(ArrayList array)
{
    Console.Write("Enter the value to Search:");
    string value = Console.ReadLine();

    int count = array.IndexOf(value);
    if (count >= 0)
    {
        Console.WriteLine("Element is found at {0} Location ", count);
    }
    else
    {
        Console.WriteLine("Element is not found:");
    }
}

public static void Main()
{
    ArrayList array = new ArrayList(); // Definition and Initialization

    int ch;
    Array duparray = Array.CreateInstance(typeof(string), 10);
    do
    {
        Console.Clear(); // Clearscreen
        Console.WriteLine("1- Add Individual Elements");
        Console.WriteLine("2- Add Range of Elements");
        Console.WriteLine("3- Insert Elements individually");
        Console.WriteLine("4- Insert Range of Elements");
        Console.WriteLine("5- Remove Individual Element");
        Console.WriteLine("6- Remove Range of Elements");
        Console.WriteLine("7- Remove Element at Location");
        Console.WriteLine("8- Sort Elements");
        Console.WriteLine("9- Reverse the Elements");
        Console.WriteLine("10- Search");
        Console.WriteLine("11- Clear the list");
        Console.WriteLine("12- Duplicate the list");
        Console.WriteLine("13- Index of Element");
    }
}

```

```

Console.WriteLine("14- Display");
Console.WriteLine("15- Exit");
ch = Convert.ToInt32(Console.ReadLine());

switch (ch)
{
    case 1:
        addIndividual(array);
        Console.ReadKey();
        break;
    case 2:
        addRange(array);
        Console.ReadKey();
        break;
    case 3:
        insertElement(array);
        Console.ReadKey();
        break;
    case 4:
        insertRange(array);
        Console.ReadKey();
        break;
    case 5:
        removeIndividual(array);
        Console.ReadKey();
        break;
    case 6:
        removeRange(array);
        Console.ReadKey();
        break;
    case 7:
        removeLoc(array);
        Console.ReadKey();
        break;
    case 8:
        array.Sort();
        Console.WriteLine("Sorted Elements are ...");
        display(array);
        Console.ReadKey();
        break;
    case 9:
        array.Reverse();
        Console.WriteLine("Reversed Array are ..");
        display(array);
        Console.ReadKey();
        break;
    case 10:
        Search(array);
        Console.ReadKey();
        break;
    case 11:
        array.Clear();
        Console.WriteLine("Elements of Array are Flushed ");
        Console.ReadKey();
        break;
    case 12:
        array.CopyTo(duparray);
        Console.Clear();
        foreach (string elements in duparray)
        {
            Console.WriteLine(elements);
        }
}

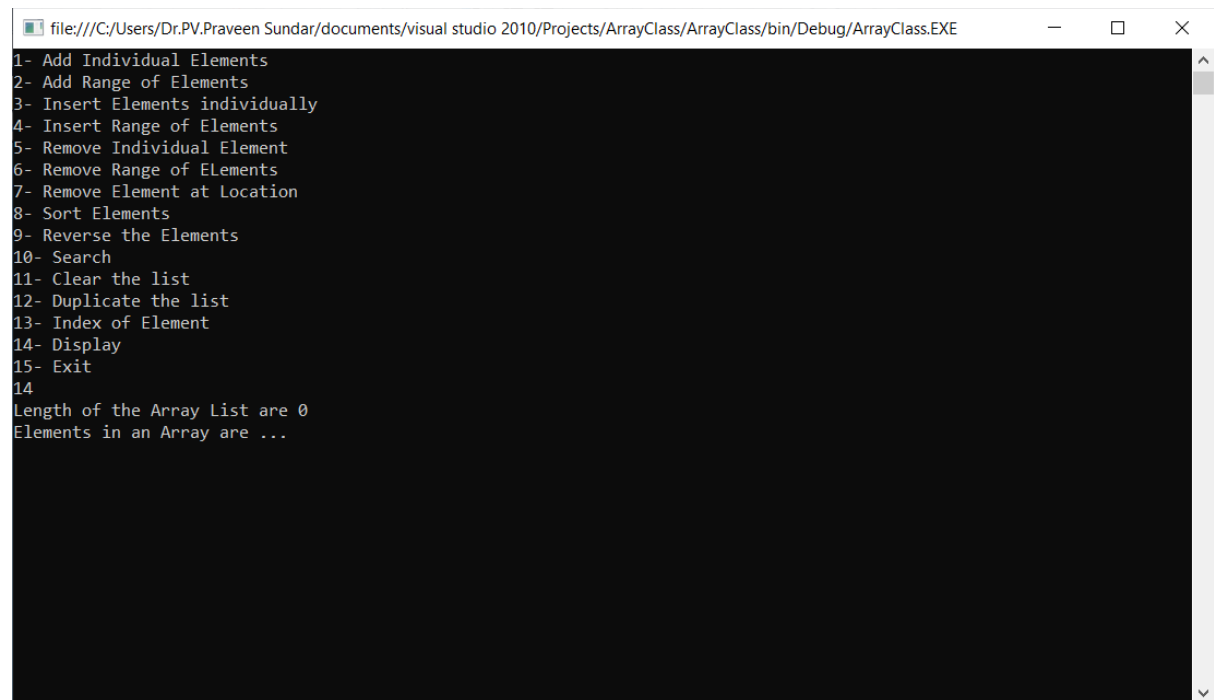
```

```

        Console.ReadKey();
        break;
    case 13:
        indexvalue(array);
        Console.ReadKey();
        break;
    case 14:
        display(array);
        Console.ReadKey();
        break;
    }
}while(ch!=15);
Console.ReadKey();
}
}
}
}
}

```

OUTPUT:



The screenshot shows a console window titled "file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE". The window contains a menu of 15 options for array operations, numbered 1 through 15. The options are:

- 1- Add Individual Elements
- 2- Add Range of Elements
- 3- Insert Elements individually
- 4- Insert Range of Elements
- 5- Remove Individual Element
- 6- Remove Range of Elements
- 7- Remove Element at Location
- 8- Sort Elements
- 9- Reverse the Elements
- 10- Search
- 11- Clear the list
- 12- Duplicate the list
- 13- Index of Element
- 14- Display
- 15- Exit

Below the menu, the text "14" is displayed, followed by "Length of the Array List are 0" and "Elements in an Array are ...".

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
1
Enter the Element to Add :C#
Element Added Successfully
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 1
Elements in an Array are ...
C#
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
2
Enter the n value :4
Enter the Values:C
Enter the Values:C++
Enter the Values:Java
Enter the Values:Python
Values Inserted in Array List Successfully
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 5
Elements in an Array are ...
C#
C
C++
Java
Python
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
3
Enter the location to Insert:2
Enter the Value to Insert :Cobol Programming
Values Inserted in Array List Successfully
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 6
Elements in an Array are ...
C#
C
Cobol Programming
C++
Java
Python
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
4
Enter the number of items to insert :3
Enter the Location to Insert:2
Enter the Value to Insert :SQL
Enter the Value to Insert :Php
Enter the Value to Insert :Visual Basic
Values Inserted in Array List Successfully
-
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 9
Elements in an Array are ...
C#
C
SQL
Php
Visual Basic
Cobol Programming
C++
Java
Python
-
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
5
Enter the Element to RemovePhp
Element Deleted Successfully
-
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 8
Elements in an Array are ...
C#
C
SQL
Visual Basic
Cobol Programming
C++
Java
Python
-
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
6
Enter the starting index :2
Enter the no of elements to Delete:2
Values Deleted in Array List Successfully
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 6
Elements in an Array are ...
C#
C
Cobol Programming
C++
Java
Python
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
7
Enter the Location to Delete:3
Element Deleted Successfully:

```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 5
Elements in an Array are ...
C#
C
Cobol Programming
Java
Python

```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
2
Enter the n value :3
Enter the Values:SQL
Enter the Values:Linux
Enter the Values:Php
Values Inserted in Array List Successfully
-
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 8
Elements in an Array are ...
C#
C
Cobol Programming
Java
Python
SQL
Linux
Php
-
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
8
Sorted Elements are ...
Length of the Array List are 8
Elements in an Array are ...
C
C#
Cobol Programming
Java
Linux
Php
Python
SQL
-
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
9
Reversed Array are ..
Length of the Array List are 8
Elements in an Array are ...
SQL
Python
Php
Linux
Java
Cobol Programming
C#
C
-
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
10
Enter the Element to Search :Java
Element Found Successfully
```

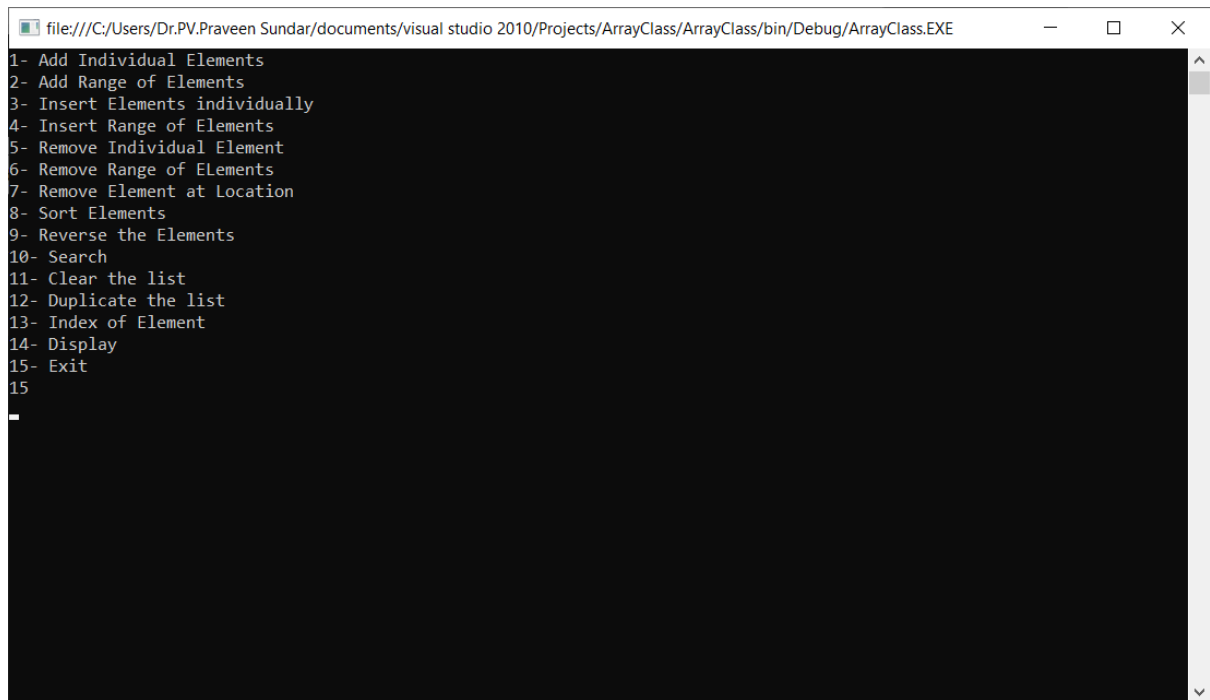
```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
12_
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
SQL
Python
Php
Linux
Java
Cobol Programming
C#
C
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
13
Enter the value to Search:Java
Element is found at 4 Location
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
11
Elements of Array are Flushed
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
14
Length of the Array List are 0
Elements in an Array are ...
```



The screenshot shows a Windows command prompt window with the title bar text: file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE. The window contains a list of 15 menu options, each preceded by a number and a hyphen. The options are: 1- Add Individual Elements, 2- Add Range of Elements, 3- Insert Elements individually, 4- Insert Range of Elements, 5- Remove Individual Element, 6- Remove Range of Elements, 7- Remove Element at Location, 8- Sort Elements, 9- Reverse the Elements, 10- Search, 11- Clear the list, 12- Duplicate the list, 13- Index of Element, 14- Display, 15- Exit, and 15. A cursor is visible on the line following the last '15'.

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/ArrayClass/ArrayClass/bin/Debug/ArrayClass.EXE
1- Add Individual Elements
2- Add Range of Elements
3- Insert Elements individually
4- Insert Range of Elements
5- Remove Individual Element
6- Remove Range of Elements
7- Remove Element at Location
8- Sort Elements
9- Reverse the Elements
10- Search
11- Clear the list
12- Duplicate the list
13- Index of Element
14- Display
15- Exit
15
-
```

RESULT:

Thus, Array list and its methods are implemented successfully.

2- INHERITANCE

AIM:

Using C# programming, implementing the concept of Single Inheritance, Multilevel inheritance and Hierarchical inheritance.

SOURCE CODE:

```
using System;

namespace Inheritance
{
    class baseclass
    {
        int regno; String Name; String Course;
        public baseclass(int rno, String name, String course)
        {
            this.regno = rno;
            this.Name = name;
            this.Course = course;
        }
        public void Display()
        {
            Console.WriteLine("\n Name : {0}", Name);
            Console.WriteLine("\n Reg No : {0}", regno);
            Console.WriteLine("\n Course : {0}", Course);
        }
    }
    class marks : baseclass
    {
        int mark1, mark2, mark3, mark4, mark5, tot;
        public marks(int rno, String name, String course, int m1, int m2, int m3, int m4,
int m5)
            : base(rno, name, course)
        {
            this.mark1 = m1;
            this.mark2 = m2;
            this.mark3 = m3;
            this.mark4 = m4;
            this.mark5 = m5;
            tot = mark1 + mark2 + mark3 + mark4 + mark5;
        }
        public void Output()
        {
            Display();
            Console.WriteLine("\n Subject 1 Marks : {0}", mark1);
            Console.WriteLine("\n Subject 2 Marks : {0}", mark2);
            Console.WriteLine("\n Subject 3 Marks : {0}", mark3);
            Console.WriteLine("\n Subject 4 Marks : {0}", mark4);
            Console.WriteLine("\n Subject 5 Marks : {0}", mark5);
            Console.WriteLine("\n Overall Tot : {0}", tot );
        }
    }

    class Resultdetails : marks
```

```

{
    String Result;

    public Resultdetails(int rno, String name, String course, int m1, int m2, int m3,
int m4, int m5)
        : base(rno, name, course, m1, m2, m3, m4, m5)
    {
        Output();
        if (m1 > 35 && m2 > 35 && m3 > 35 && m4 > 35 && m5 > 35)
            Result = " Pass";
        else
            Result = " Fail";
        Console.WriteLine(" Result: {0}", Result);
    }
}

class Studentdetails : baseclass
{
    long aadharno; String fathername; String mothername; String Address;
    public Studentdetails(int rno, String name, String course): base(rno,name,course)
    {
        Console.Write(" Enter the Aadhar no");
        aadharno = Convert.ToInt64(Console.ReadLine());
        Console.Write(" Enter the Father Name:");
        fathername = Console.ReadLine();
        Console.Write(" Enter the Mother Name:");
        mothername = Console.ReadLine();
        Console.Write(" Enter the Address:");
        Address = Console.ReadLine();
    }
    public void Output()
    {
        Display();
        Console.WriteLine("\n Aadhar no :{0}", aadharno);
        Console.WriteLine("\n Father Name : {0}", fathername);
        Console.WriteLine("\n Mother Name : {0}", mothername);
    }
}

class Program
{
    static void Main(string[] args)
    {
        int choice;
        int rno, m1, m2,m3,m4,m5;
        String name, course,res;
        do
        {
            Console.Clear();
            Console.WriteLine("1- Base Class");
            Console.WriteLine("2- Single Inheritance");
            Console.WriteLine("3- Multilevel Inheritance");
            Console.WriteLine("4- Hierarchical Inheritance");
            Console.WriteLine("5- Exit");

```

```

choice = Convert.ToInt32(Console.ReadLine());
switch (choice)
{
    case 1:
        Console.Write(" Enter the Reg no:");
        rno = Convert.ToInt16(Console.ReadLine());
        Console.Write(" Enter the Name:");
        name = Console.ReadLine();
        Console.Write(" Enter the Course :");
        course = Console.ReadLine();

        baseclass obj1 = new baseclass(rno, name, course);
        obj1.Display();
        Console.ReadKey();
        break;
    case 2:
        Console.Write(" Enter the Reg no:");
        rno = Convert.ToInt16(Console.ReadLine());
        Console.Write(" Enter the Name:");
        name = Console.ReadLine();
        Console.Write(" Enter the Course :");
        course = Console.ReadLine();
        Console.Write("\n Enter the Subject 1 marks:");
        m1 = Convert.ToInt16(Console.ReadLine());
        Console.Write("\n Enter the Subject 2 marks:");
        m2 = Convert.ToInt16(Console.ReadLine());
        Console.Write("\n Enter the Subject 3 marks:");
        m3 = Convert.ToInt16(Console.ReadLine());
        Console.Write("\n Enter the Subject 4 marks:");
        m4 = Convert.ToInt16(Console.ReadLine());
        Console.Write("\n Enter the Subject 5 marks:");
        m5 = Convert.ToInt16(Console.ReadLine());
        marks M = new marks(rno, name, course, m1, m2, m3, m4, m5);
        M.Output();
        Console.ReadKey();
        break;
    case 3:
        Console.WriteLine(" Multilevel Inheritance Example\n");
        Console.Write(" Enter the Reg no:");
        rno = Convert.ToInt16(Console.ReadLine());
        Console.Write(" Enter the Name:");
        name = Console.ReadLine();
        Console.Write(" Enter the Course :");
        course = Console.ReadLine();
        Console.Write("\n Enter the Subject 1 marks:");
        m1 = Convert.ToInt16(Console.ReadLine());
        Console.Write("\n Enter the Subject 2 marks:");
        m2 = Convert.ToInt16(Console.ReadLine());
        Console.Write("\n Enter the Subject 3 marks:");
        m3 = Convert.ToInt16(Console.ReadLine());
        Console.Write("\n Enter the Subject 4 marks:");
        m4 = Convert.ToInt16(Console.ReadLine());
        Console.Write("\n Enter the Subject 5 marks:");
        m5 = Convert.ToInt16(Console.ReadLine());
        Resultdetails R = new Resultdetails(rno, name, course, m1, m2,
m3, m4, m5);

        Console.ReadKey();
        break;
}

```

```

        case 4:
            Console.WriteLine(" Hierarchical Class Example");
            Console.Write(" Enter the Reg no:");
            rno = Convert.ToInt16(Console.ReadLine());
            Console.Write(" Enter the Name:");
            name = Console.ReadLine();
            Console.Write(" Enter the Course :");
            course = Console.ReadLine();

            Studentdetails SD = new Studentdetails(rno, name, course);
            SD.Output();
            Console.ReadKey();
            break;
    }

    } while (choice <=4);
    Console.ReadKey();
}
}
}

```

OUTPUT:

```

file:///c:/users/praveen/documents/visual studio 2010/Projects/Inheritance/Inheritance/bin/Debug/Inheritance.EXE
1- Base Class
2- Single Inheritance
3- Multilevel Inheritance
4- Hierarchical Inheritance
5- Exit
1
Enter the Reg no:21312
Enter the Name:Praveen
Enter the Course :BCA

Name : Praveen
Reg No : 21312
Course : BCA

```

file:///c:/users/praveen/documents/visual studio 2010/Projects/Inheritance/Inheritance/bin/Debug/Inheritance.EXE

```
1- Base Class
2- Single Inheritance
3- Multilevel Inheritance
4- Hierarchical Inheritance
5- Exit
```

```
2
Enter the Reg no:21312
Enter the Name:Naveen
Enter the Course :BCA

Enter the Subject 1 marks:45
Enter the Subject 2 marks:56
Enter the Subject 3 marks:67
Enter the Subject 4 marks:78
Enter the Subject 5 marks:89
```

```
Name : Naveen
Reg No : 21312
Course : BCA
Subject 1 Marks : 45
Subject 2 Marks : 56
Subject 3 Marks : 67
Subject 4 Marks : 78
Subject 5 Marks : 89
Overall Tot : 335
```

file:///c:/users/praveen/documents/visual studio 2010/Projects/Inheritance/Inheritance/bin/Debug/Inheritance.EXE

```
1- Base Class
2- Single Inheritance
3- Multilevel Inheritance
4- Hierarchical Inheritance
5- Exit
```

```
3
Multilevel Inheritance Example
Enter the Reg no:21312
Enter the Name:kavin
Enter the Course :BCA

Enter the Subject 1 marks:45
Enter the Subject 2 marks:56
Enter the Subject 3 marks:67
Enter the Subject 4 marks:78
Enter the Subject 5 marks:89
```

```
Name : kavin
Reg No : 21312
Course : BCA
Subject 1 Marks : 45
Subject 2 Marks : 56
Subject 3 Marks : 67
Subject 4 Marks : 78
Subject 5 Marks : 89
Overall Tot : 335
Result: Pass
```

```
file:///c:/users/praveen/documents/visual studio 2010/Projects/Inheritance/Inheritance/bin/Debug/Inheritance.EXE
1- Base Class
2- Single Inheritance
3- Multilevel Inheritance
4- Hierarchical Inheritance
5- Exit
4
Hierarchical Class Example
Enter the Reg no:21312
Enter the Name:Vibin
Enter the Course :BCA
Enter the Aadhar no123144534
Enter the Father Name:Vamsy
Enter the Mother Name:Bhavana
Enter the Address:Ernakulam

Name : Vibin

Reg No : 21312

Course : BCA

Aadhar no :123144534

Father Name : Vamsy

Mother Name : Bhavana

-
```

```
file:///c:/users/praveen/documents/visual studio 2010/Projects/Inheritance/Inheritance/bin/Debug/Inheritance.EXE
1- Base Class
2- Single Inheritance
3- Multilevel Inheritance
4- Hierarchical Inheritance
5- Exit
5
-
```

RESULT:

Thus, Single Inheritance, Multi level Inheritance and Hierarchical Inheritance is implemented, the desired output is executed successfully.

3-IMPLEMENTATION OF INTERFACE IN OOPS**AIM:**

Using C# Programming, develop the program, which implements the Concept of Interface.

SOURCE CODE:

```
using System;

namespace Labexercise_6
{
    class Shapes
    {
        public const float PI = 3.14159f;
        public const double e = 2.71828f;
        public void Area()
        {
            Console.WriteLine(" Area and Volume of the Shapes is differ from one
object to another");
        }
    }
    interface Square
    {
        int Area(int a); // a*a
        int Volume(int s); // s*s*s
    }
    interface Circle
    {
        double Area(int r); //  $\pi r^2$ 
        double Volume(int r); //  $\frac{4}{3} * \pi r^3$ 
    }
    interface Rectangle
    {
        double Area(int l, int w); // area= l*w;
        double Volume(int l, int b, int h); //Volume= l*b*h;
    }
    class Program : Shapes, Square, Circle, Rectangle
    {
        int Square.Area(int a)
        {
            return (a * a);
        }
        int Square.Volume(int s)
        {
            return (s * s * s);
        }
        double Circle.Area(int r)
        {
            return (Shapes.PI * r * r);
        }
        double Circle.Volume(int r)
        {
            return ((4 / 3) * Shapes.PI * r * r * r);
        }
        public double Area(int l, int w)
        {
            return (l * w);
        }
    }
}
```

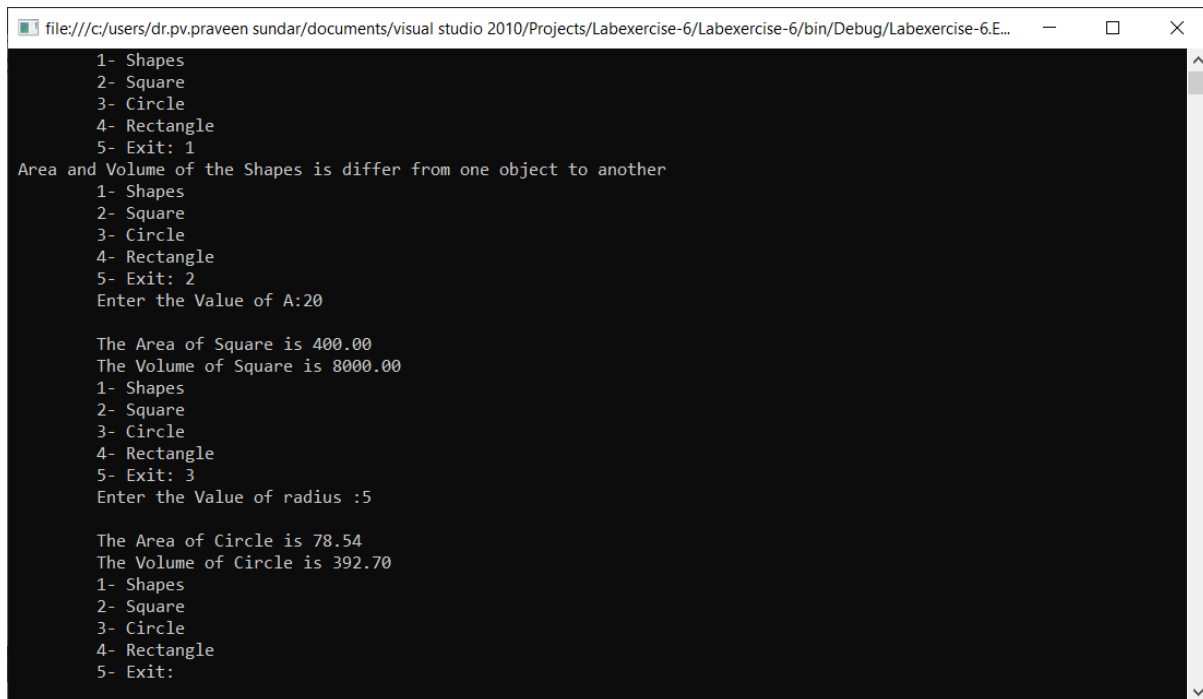
```

public double Volume(int l, int b, int h)
{
    return (1 * b * h);
}
static void Main(string[] args)
{
    int ch;
    do
    {
        Console.WriteLine("\t 1- Shapes ");
        Console.WriteLine("\t 2- Square ");
        Console.WriteLine("\t 3- Circle ");
        Console.WriteLine("\t 4- Rectangle");
        Console.Write("\t 5- Exit: ");
        ch = Convert.ToInt32(Console.ReadLine());
        switch (ch)
        {
            case 1:
                Program p = new Program();
                p.Area();
                break;
            case 2:
                Square objS = new Program();
                Console.Write("\t Enter the Value of A:");
                int a = Convert.ToInt32(Console.ReadLine());
                Console.WriteLine("\n\t The Area of Square is {0:F}",
objS.Area(a));
                Console.WriteLine("\t The Volume of Square is {0:F}",
objS.Volume(a));
                break;
            case 3:
                Circle objC = new Program();
                Console.Write("\t Enter the Value of radius :");
                int r = Convert.ToInt32(Console.ReadLine());
                Console.WriteLine("\n\t The Area of Circle is {0:F}",
objC.Area(r));
                Console.WriteLine("\t The Volume of Circle is {0:F}",
objC.Volume(r));
                break;
            case 4:
                Rectangle objR = new Program();
                Console.Write("\t Enter the Value of Length :");
                int l = Convert.ToInt32(Console.ReadLine());
                Console.Write("\t Enter the Value of Breadth :");
                int b = Convert.ToInt32(Console.ReadLine());
                Console.Write("\t Enter the Value of Height :");
                int h = Convert.ToInt32(Console.ReadLine());
                Console.WriteLine("\n\t The Area of Rectangle is {0:F}",
objR.Area(l, b));
                Console.WriteLine("\t The Volume of Rectangle is {0:F}",
objR.Volume(l, b, h));
                break;
            case 5:
                break;
            default:
                Console.WriteLine("\t Invalid Choice ");
                break;
        }
    } while (ch < 5);
    Console.ReadKey();
}

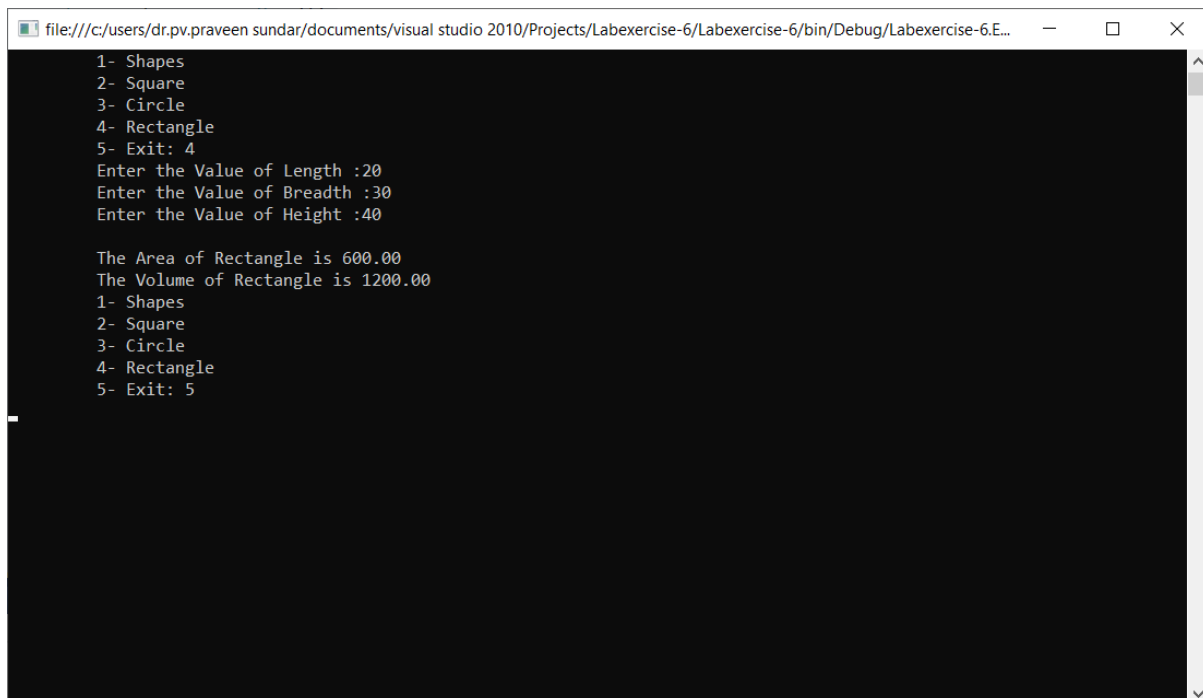
```

```
}  
}
```

OUTPUT:



```
file:///c:/users/dr.pv.praveen.sundar/documents/visual studio 2010/Projects/Labexercise-6/Labexercise-6/bin/Debug/Labexercise-6.E...  
1- Shapes  
2- Square  
3- Circle  
4- Rectangle  
5- Exit: 1  
Area and Volume of the Shapes is differ from one object to another  
1- Shapes  
2- Square  
3- Circle  
4- Rectangle  
5- Exit: 2  
Enter the Value of A:20  
  
The Area of Square is 400.00  
The Volume of Square is 8000.00  
1- Shapes  
2- Square  
3- Circle  
4- Rectangle  
5- Exit: 3  
Enter the Value of radius :5  
  
The Area of Circle is 78.54  
The Volume of Circle is 392.70  
1- Shapes  
2- Square  
3- Circle  
4- Rectangle  
5- Exit:
```



```
file:///c:/users/dr.pv.praveen.sundar/documents/visual studio 2010/Projects/Labexercise-6/Labexercise-6/bin/Debug/Labexercise-6.E...  
1- Shapes  
2- Square  
3- Circle  
4- Rectangle  
5- Exit: 4  
Enter the Value of Length :20  
Enter the Value of Breadth :30  
Enter the Value of Height :40  
  
The Area of Rectangle is 600.00  
The Volume of Rectangle is 1200.00  
1- Shapes  
2- Square  
3- Circle  
4- Rectangle  
5- Exit: 5
```

RESULT:

Thus, Concept of Interface is implemented successfully.

4- IMPLEMENTATION OF DELEGATES AND EVENTS

AIM:

Using C# Programming, develop the program, which implements the delegates for Simple arithmetic operations, Also create an events for following conditions (1- If the resultant value is negative value and resultant value is more than 25000).

SOURCE CODE:

```
using System;

public delegate float Calculator(float x, float y);

namespace Delegateeg
{
    class Delegateandevents
    {
        public delegate void dg_Num();
        public event dg_Num ev_negativeNumber;
        public event dg_Num ev_maxNumber;
        public float AddNum(float p, float q)
        {
            float result = p + q;
            if (result < 0)
            {
                ev_negativeNumber();
                return (0.0f);
            }
            if (result > 25000)
            {
                ev_maxNumber();
                return (0.0f);
            }
            return (result);
        }
        public float SubNum(float p, float q)
        {
            float result = p - q;
            if (result < 0)
            {
                ev_negativeNumber();
                return (0.0f);
            }
            if (result > 25000)
            {
                ev_maxNumber();
                return (0.0f);
            }
            return (result);
        }
        public float MultNum(float p, float q)
        {
            float result = p * q;
            if (result < 0)
            {
                ev_negativeNumber();
                return (0.0f);
            }
        }
    }
}
```

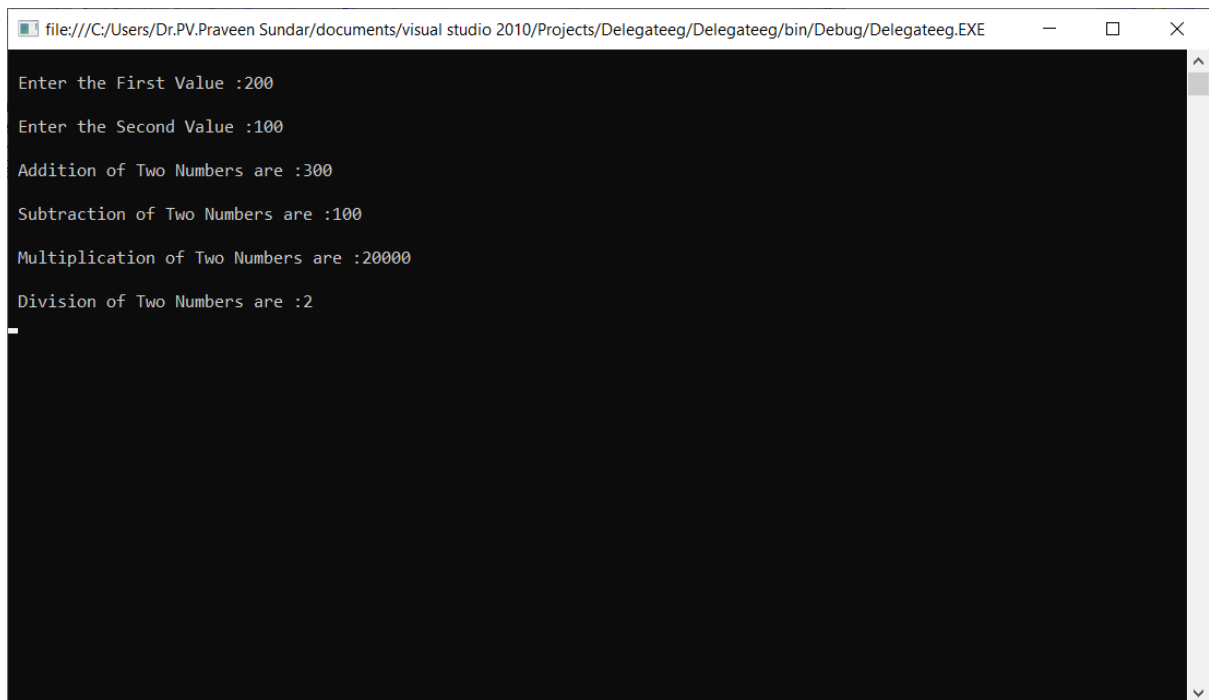
```

        if (result > 25000)
        {
            ev_maxNumber();
            return (0.0f);
        }
        return (result);
    }
    public float DivNum(float p, float q)
    {
        float result = (float)(p / q);
        if (result < 0)
        {
            ev_negativeNumber();
            return (0.0f);
        }
        if (result > 25000)
        {
            ev_maxNumber();
            return (0.0f);
        }
        return (result);
    }
    static void errorMessage()
    {
        Console.WriteLine(":::: (Negative Number araised) ::::");
    }
    static void errorMaxMessage()
    {
        Console.WriteLine(":::: (Maximum Number araised) ::::");
    }
    public static void Main()
    {
        Delegateandevents dg_obj = new Delegateandevents();
        int value1,value2;
        dg_obj.ev_negativeNumber += new Delegateandevents.dg_Num(errorMessage );
        dg_obj.ev_maxNumber += new Delegateandevents.dg_Num(errorMaxMessage);
        Console.Write("\n Enter the First Value :");
        value1= Convert.ToInt32(Console.ReadLine());
        Console.Write("\n Enter the Second Value :");
        value2= Convert.ToInt32(Console.ReadLine());
        Calculator CalcObj= dg_obj.AddNum;
        Console.WriteLine("\n Addition of Two Numbers are :{0}", CalcObj(value1,
value2));
        CalcObj = dg_obj.SubNum;
        Console.WriteLine("\n Subtraction of Two Numbers are :{0}",
CalcObj(value1, value2));
        CalcObj = dg_obj.MultNum;
        Console.WriteLine("\n Multiplication of Two Numbers are :{0}",
CalcObj(value1, value2));
        CalcObj = dg_obj.DivNum;
        Console.WriteLine("\n Division of Two Numbers are :{0}", CalcObj(value1,
value2));

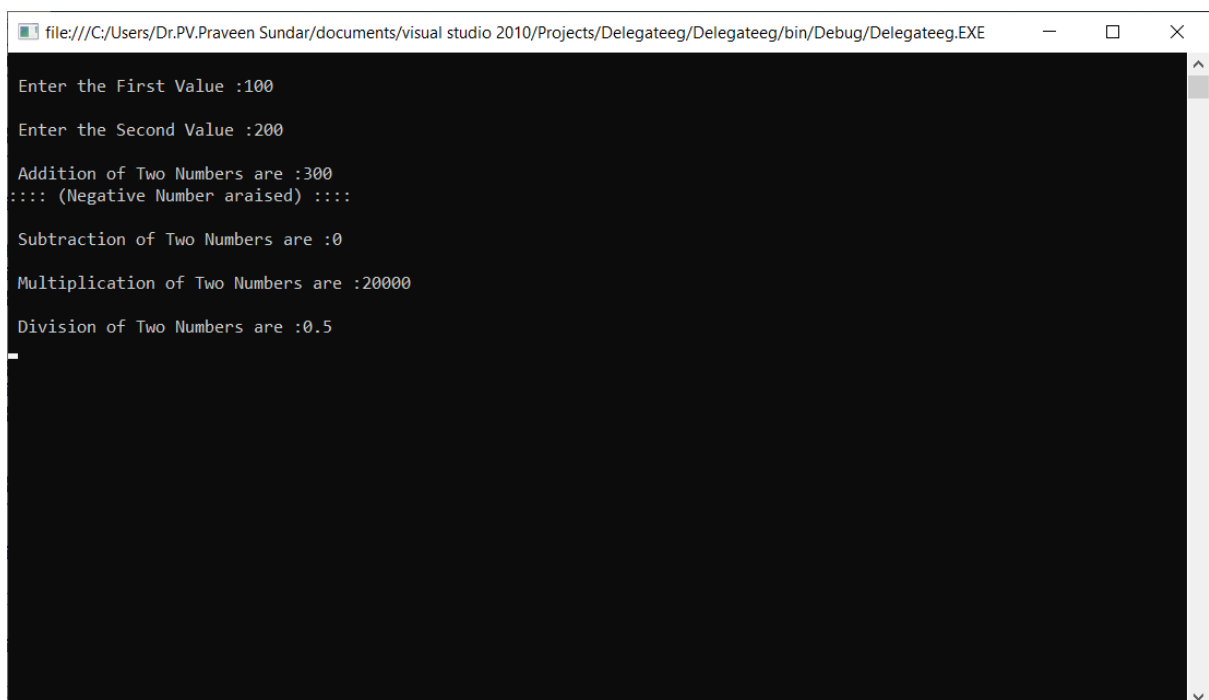
        Console.ReadKey();
    }
}

```

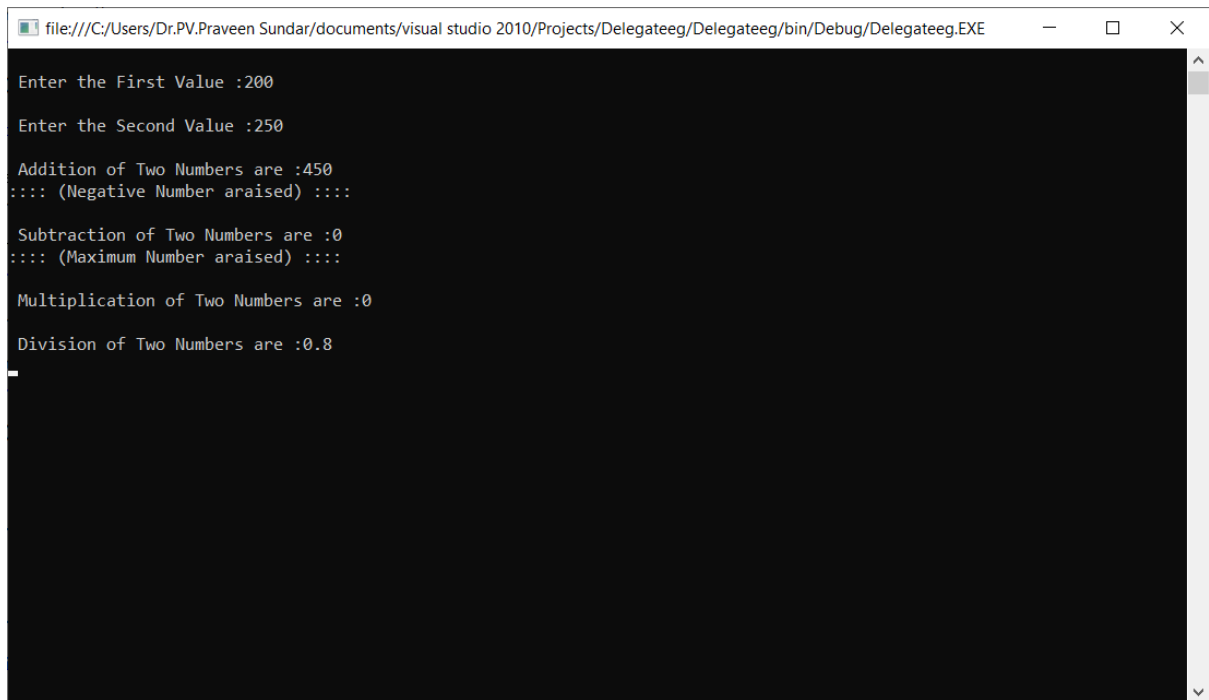
OUTPUT:



```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Delegateeg/Delegateeg/bin/Debug/Delegateeg.EXE
Enter the First Value :200
Enter the Second Value :100
Addition of Two Numbers are :300
Subtraction of Two Numbers are :100
Multiplication of Two Numbers are :20000
Division of Two Numbers are :2
```



```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Delegateeg/Delegateeg/bin/Debug/Delegateeg.EXE
Enter the First Value :100
Enter the Second Value :200
Addition of Two Numbers are :300
::: (Negative Number araised) :::
Subtraction of Two Numbers are :0
Multiplication of Two Numbers are :20000
Division of Two Numbers are :0.5
```



```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Delegateeg/Delegateeg/bin/Debug/Delegateeg.EXE

Enter the First Value :200

Enter the Second Value :250

Addition of Two Numbers are :450
:::: (Negative Number araised) ::::

Subtraction of Two Numbers are :0
:::: (Maximum Number araised) ::::

Multiplication of Two Numbers are :0

Division of Two Numbers are :0.8
```

RESULT:

Thus, Delegates and events in C# is executed successfully.

5- EXCEPTION HANDLING

AIM:

Using C# Programming, develop the program, which handles various exceptions supported in C#

SOURCE CODE:

```
using System;
using System.Linq;
namespace Exception_Handling
{
    class lab5
    {
        int[] array= new int[5];
        int i=0,n;
        float avg;
        public lab5()
        {
            int value;
            try
            {
                Console.Write(" Enter the N value:");
                n = int.Parse(Console.ReadLine());
                for (i = 0; i < n; )
                {
                    Console.Write("Enter the Value [{0}] :", i);
                    value = int.Parse(Console.ReadLine());
                    if (value < 0)
                    {
                        throw new userDefinedException(" Only Positive values in Array
Exception");
                    }
                    array[i++] = value;
                }
                avg = array.Sum() / n;
                Display();
            }
            catch (OverflowException oe)
            {
                Console.WriteLine(" Overflow Exception:- " + oe.Message);
            }
            catch (IndexOutOfRangeException ie)
            {
                Console.WriteLine(" Index maybe Overflow or Underflow:- " +
ie.Message);
            }
            catch (FormatException fe)
            {
                Console.WriteLine(" Format Exception :- " + fe.Message);
            }
            catch (userDefinedException ude)
            {
                Console.WriteLine(" User defined Exception :- " + ude.Message);
            }
            catch (Exception ex)
            {
                Console.WriteLine(" General Exception :- " + ex.Message);
            }
        }
    }
}
```

```

    }
}

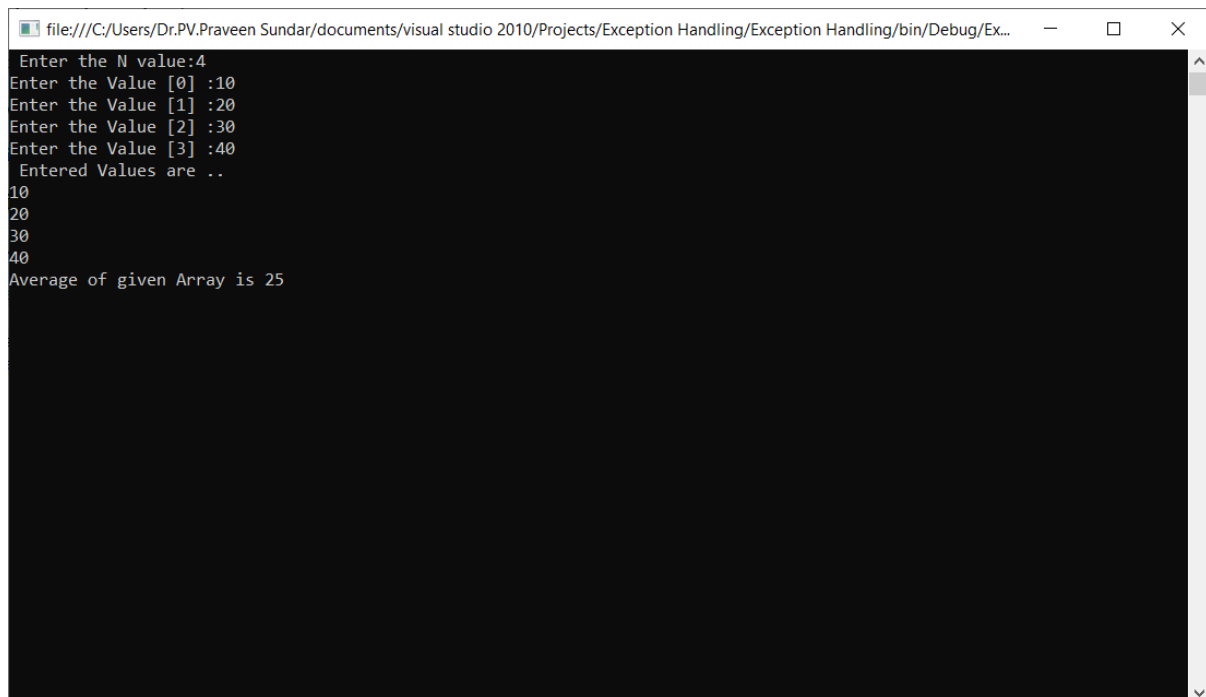
public void Display()
{
    Console.WriteLine(" Entered Values are ..");

    for (int i = 0; i < n;i++ )
    {
        Console.WriteLine("{0} \t ", array[i]);
    }
    Console.WriteLine("Average of given Array is {0}", avg);
}
public static void Main()
{
    lab5 obj = new lab5();

    Console.ReadKey();
}
class userDefinedException: Exception
{
    public userDefinedException(string message)
        : base(message)
    {
    }
}
}
}
}

```

OUTPUT:



```

file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Exception Handling/Exception Handling/bin/Debug/Ex...
Enter the N value:4
Enter the Value [0] :10
Enter the Value [1] :20
Enter the Value [2] :30
Enter the Value [3] :40
Entered Values are ..
10
20
30
40
Average of given Array is 25

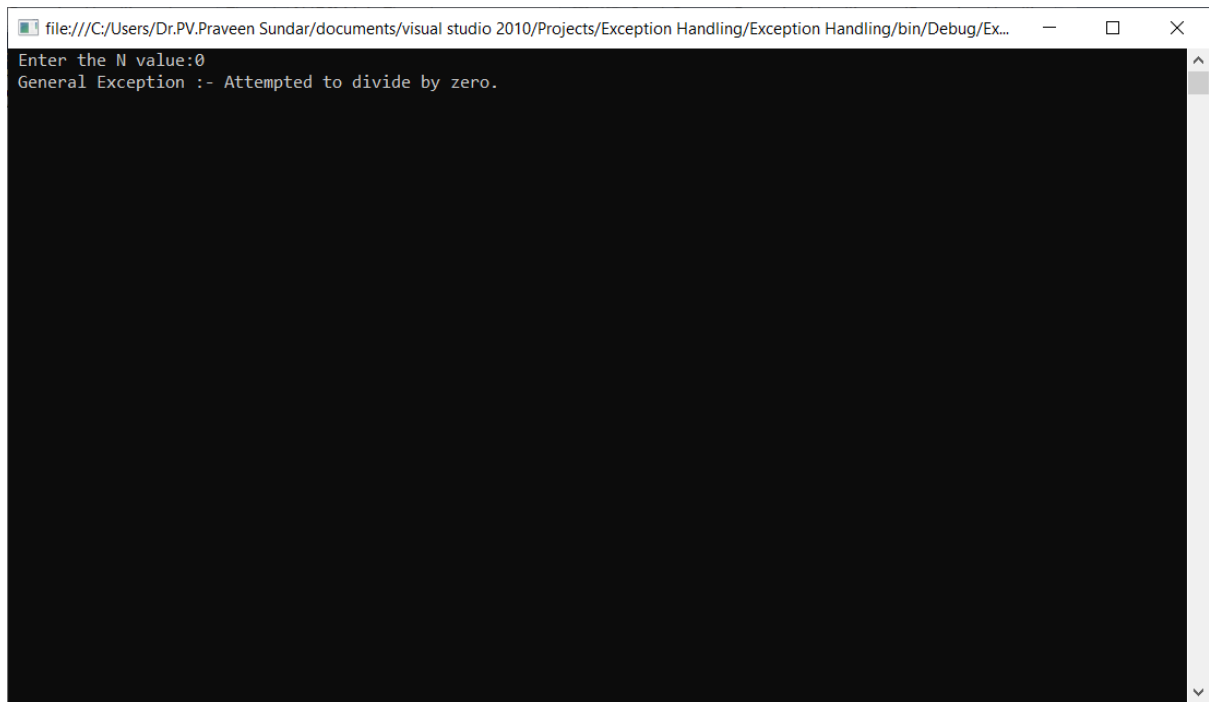
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Exception Handling/Exception Handling/bin/Debug/Ex...
Enter the N value:5
Enter the Value [0] :123456789
Enter the Value [1] :987654321234567
Overflow Exception:- Value was either too large or too small for an Int32.
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Exception Handling/Exception Handling/bin/Debug/Ex...
Enter the N value:10
Enter the Value [0] :10
Enter the Value [1] :20
Enter the Value [2] :30
Enter the Value [3] :40
Enter the Value [4] :50
Enter the Value [5] :60
Index maybe Overflow or Underflow:-Index was outside the bounds of the array.
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Exception Handling/Exception Handling/bin/Debug/Ex...
Enter the N value:5
Enter the Value [0] :10
Enter the Value [1] :20.12
Format Exception :-Input string was not in a correct format.
```

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Exception Handling/Exception Handling/bin/Debug/Ex...
Enter the N value:5
Enter the Value [0] :10
Enter the Value [1] :20
Enter the Value [2] :30
Enter the Value [3] :-10
User defined Exception :- Only Positive values in Array Exception
```

A screenshot of a Windows console window. The title bar shows the file path: file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Exception Handling/Exception Handling/bin/Debug/Ex... The console output shows two lines: "Enter the N value:0" and "General Exception :- Attempted to divide by zero." The console background is black with white text. There is a scrollbar on the right side of the console area.

```
file:///C:/Users/Dr.PV.Praveen Sundar/documents/visual studio 2010/Projects/Exception Handling/Exception Handling/bin/Debug/Ex...
Enter the N value:0
General Exception :- Attempted to divide by zero.
```

RESULT:

Thus, Exceptions are handled in C# program successfully.

6- SIMPLE CALCULATOR

AIM:

Create a simple calculator using form fields in VB.Net. The form contains two fields for number entry & one field for the result. Allow the user to be able to use plus, minus, multiply and divide.

SOURCE CODE:

```
Public Class frm_Calc

    Dim value1, value2, result As Double
    Private Sub btn_add_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_add.Click

        If txt_first.Text.Length > 0 Then
            If txt_second.Text.Length > 0 Then
                Try
                    value1 = CDb1(txt_first.Text)
                    value2 = CDb1(txt_second.Text)
                    result = value1 + value2
                    txt_result.Text = result.ToString()
                Catch ex As Exception
                    MessageBox.Show("Invalid input " + ex.Message, "Simple
Calculator")
                    txt_first.Text = " "
                    txt_second.Text = " "
                End Try
            Else
                MessageBox.Show("Enter the Second Value before Add", "Simple
Calculator")
                txt_second.Focus()
            End If
        Else
            MessageBox.Show("Enter the First Value before Add", "Simple Calculator")
            txt_first.Focus()
        End If
    End Sub

    Private Sub frm_Calc_Load(ByVal sender As Object, ByVal e As System.EventArgs)
Handles Me.Load
        txt_first.Focus()
    End Sub

    Private Sub btn_minus_Click(ByVal sender As Object, ByVal e As System.EventArgs)
Handles btn_minus.Click
        If txt_first.Text.Length > 0 Then
            If txt_second.Text.Length > 0 Then
                Try
                    value1 = CDb1(txt_first.Text)
                    value2 = CDb1(txt_second.Text)
                    result = value1 - value2
                    txt_result.Text = result.ToString()
                Catch ex As Exception
                    MessageBox.Show("Invalid input " + ex.Message, "Simple
Calculator")
                    txt_first.Text = " "
```

```

        txt_second.Text = " "
    End Try
Else
    MessageBox.Show("Enter the Second Value before Subtract", "Simple
Calculator")
    txt_second.Focus()
End If
Else
    MessageBox.Show("Enter the First Value before Subtract", "Simple
Calculator")
    txt_first.Focus()
End If
End Sub

Private Sub btn_mult_Click(ByVal sender As Object, ByVal e As System.EventArgs)
Handles btn_mult.Click
    If txt_first.Text.Length > 0 Then
        If txt_second.Text.Length > 0 Then
            Try
                value1 = CDb1(txt_first.Text)
                value2 = CDb1(txt_second.Text)
                result = value1 * value2
                txt_result.Text = result.ToString()
            Catch ex As Exception
                MessageBox.Show("Invalid input " + ex.Message, "Simple
Calculator")
                txt_first.Text = " "
                txt_second.Text = " "
            End Try
        Else
            MessageBox.Show("Enter the Second Value before Multiply", "Simple
Calculator")
            txt_second.Focus()
        End If
    Else
        MessageBox.Show("Enter the First Value before Multiply", "Simple
Calculator")
        txt_first.Focus()
    End If
End Sub

Private Sub btn_divide_Click(ByVal sender As Object, ByVal e As System.EventArgs)
Handles btn_divide.Click
    If txt_first.Text.Length > 0 Then
        If txt_second.Text.Length > 0 Then
            Try
                value1 = CDb1(txt_first.Text)
                value2 = CDb1(txt_second.Text)
                If value2 > 0 Then
                    result = value1 / value2
                    txt_result.Text = result.ToString()
                Else
                    MessageBox.Show("Second Value is not equal to 0 ", "Simple
Calculator")
                    txt_second.Focus()
                End If
            Catch ex As Exception
                MessageBox.Show("Invalid input " + ex.Message, "Simple
Calculator")
                txt_first.Text = " "
                txt_second.Text = " "
            End Try
        End If
    End If
End Sub

```

```

        End Try
    Else
        MessageBox.Show("Enter the Second Value before Divide", "Simple
Calculator")
        txt_second.Focus()
    End If
Else
    MessageBox.Show("Enter the First Value before Divide", "Simple
Calculator")
    txt_first.Focus()
End If
End Sub

Private Sub btn_clear_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_clear.Click
    txt_first.Clear()
    txt_second.Clear()
    txt_result.Clear()

End Sub
End Class

```

OUTPUT:

Simple Calculator

Simple Calculator

First Value 10

Second Value 20

Result 30

+ - * / Clear

Simple Calculator

Simple Calculator

First Value

10

Second Value

20

Result

-10

+

-

*

/

Clear

Simple Calculator

Simple Calculator

First Value

10

Second Value

20

Result

200

+

-

*

/

Clear

4 | Page

Simple Calculator

Simple Calculator

First Value

10

Second Value

20

Result

0.5

+

-

*

/

Clear

Simple Calculator

Simple Calculator

First Value

Second Value

Result

+

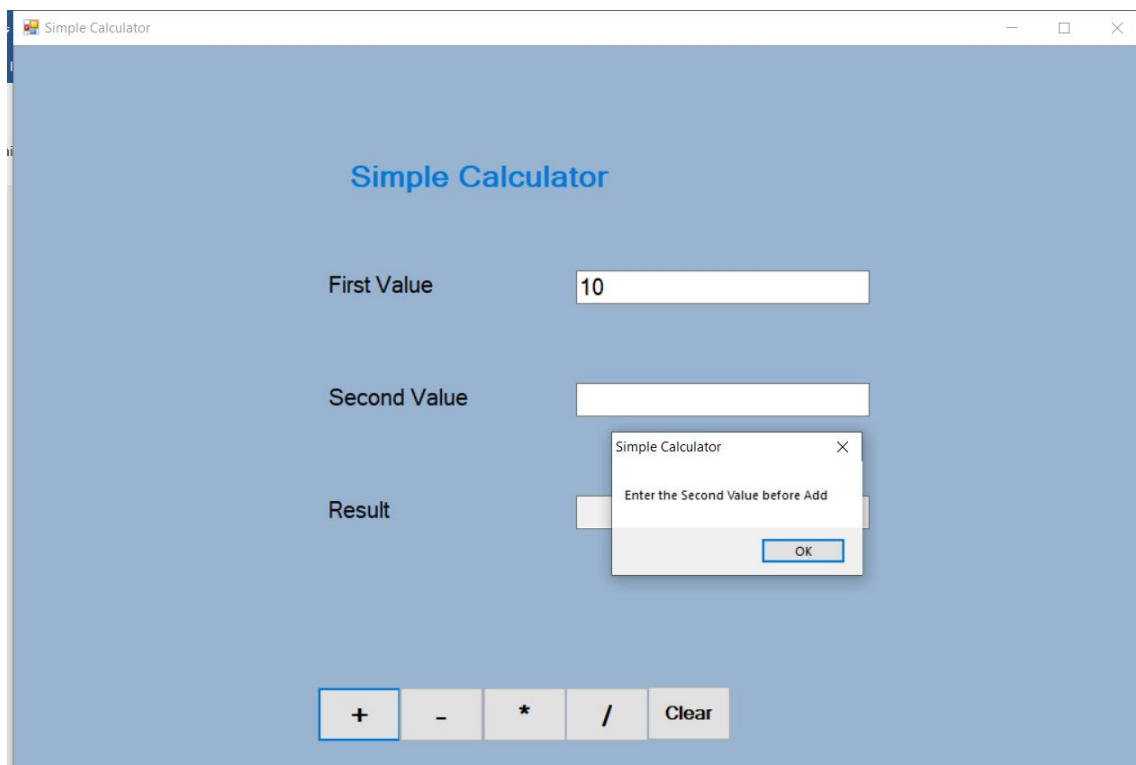
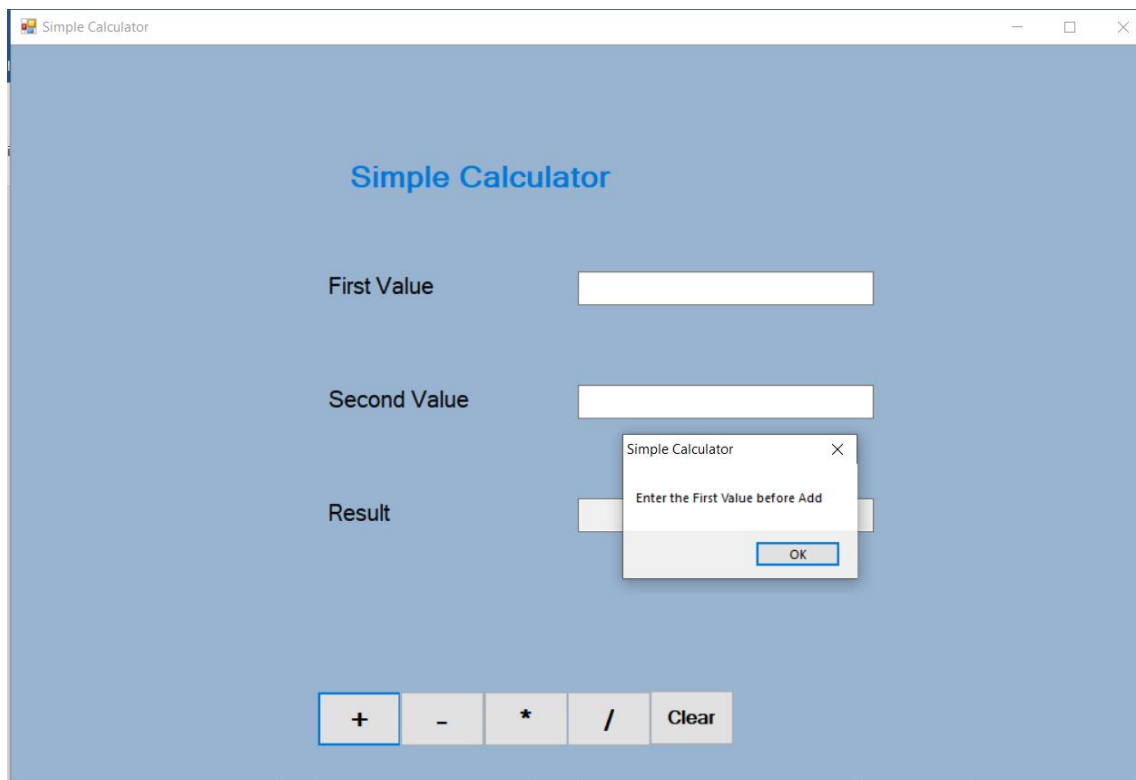
-

*

/

Clear

5 | Page



RESULT:

Thus, Simple Calculator for basic arithmetic operations is implemented in VB.Net Successfully.

7- EMPLOYEE PAYSLIP

AIM:

Create a simple pay slip application using form fields in VB.Net. The form contains basic fields about employee and, through those fields generate the Pay slip.

TABLE QUERY

Create Table Employee (emp_no Numeric(18,0), emp_name Varchar(50), design Varchar(50), basic_sal Numeric(15,0))

PROPERTIES

Form : (frm_main)

Properties	Value
Name	frm_main
Text	Employee Payroll Details
BackColor	ActiveCaption
Size	1500, 750
Locked	True
IsMdiContainer	True
MainMenuStrip	MenuStrip1
MaximizeBox	False

Form : (frm_employee)

Properties	Value
Name	frm_employee
Text	Employee Details
BackColor	ActiveCaption
Size	1500, 750
WindowState	Maximized

Form : (Payroll)

Properties	Value
Name	Payroll
Text	Payroll Details
BackColor	ActiveCaption
Size	1500, 750
WindowState	Maximized

SOURCE CODE:

Form : (frm_main)

```
Public Class frm_main

    Private Sub EmployeeDetailsToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles EmployeeDetailsToolStripMenuItem.Click
        Dim ed As New frm_employee
        ed.MdiParent = Me
        ed.Show()
    End Sub

    Private Sub GeneratePayrollToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles GeneratePayrollToolStripMenuItem.Click
        Dim pg As New Payroll
        pg.MdiParent = Me
        pg.Show()
    End Sub
End Class
```

Form: frm_employee

```
Imports System
Imports System.Data
Imports System.Data.SqlClient

Public Class frm_employee
    Dim con As New SqlConnection("Data Source=LAPTOP-CIPFHHUQ\SQLEXPRESS;Initial
Catalog=Employee;Integrated Security=True;Pooling=False")
    Dim cmd As SqlCommand
    Dim sda As SqlDataAdapter
    Dim ds As DataSet
    Dim sdr As SqlDataReader

    Private Sub frm_employee_Load(ByVal sender As Object, ByVal e As System.EventArgs)
Handles Me.Load
        Try
            If con.State = ConnectionState.Closed Then
                con.Open()
                load_employeeno()
                load_grid()
            End If
            Catch ex As Exception
                MessageBox.Show(ex.Message, "Employee Payroll System",
MessageBoxButtons.OKCancel)
            End Try
        End Sub

    Public Sub load_employeeno()
        Dim query As String
        query = "Select 0 as emp_no union Select emp_no from tbl_employee"
        sda = New SqlDataAdapter(query, con)
        ds = New DataSet
        sda.Fill(ds)

        cmb_employee.DataSource = ds.Tables(0)
        cmb_employee.DisplayMember = "emp_no"
        cmb_employee.ValueMember = "emp_no"
    End Sub

    Public Sub load_grid()
```

```

Dim query As String
query = "Select * from tbl_employee"
sda = New SqlDataAdapter(query, con)
ds = New DataSet
sda.Fill(ds)
dgv_employee.DataSource = ds
dgv_employee.DataMember = ds.Tables(0).TableName
End Sub

Private Sub btn_Add_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_Add.Click
Dim query As String
Dim result As Integer
If txt_empno.Text.Length > 0 Then
If txt_name.Text.Length > 0 Then
If txt_design.Text.Length > 0 Then
If txt_basic.Text.Length > 0 Then
Try
query = "insert into tbl_employee values('" +
txt_empno.Text + "','" + txt_name.Text + "','" + txt_design.Text + "','" +
txt_basic.Text + "')"
cmd = New SqlCommand(query, con)
If con.State = ConnectionState.Closed Then
con.Open()
End If
result = cmd.ExecuteNonQuery()
MessageBox.Show(result.ToString + " rows Inserted ",
"Employee Payroll System", MessageBoxButtons.OKCancel)
load_employee()
load_grid()
Catch ex As Exception
MessageBox.Show(ex.Message, "Employee Payroll System",
MessageBoxButtons.OKCancel)
End Try
Else
MessageBox.Show("Enter the Employee Basic Pay", "Employee
Payroll System", MessageBoxButtons.OK)
txt_basic.Focus()
End If
Else
MessageBox.Show("Enter the Employee Designation", "Employee
Payroll System", MessageBoxButtons.OK)
txt_design.Focus()
End If
Else
MessageBox.Show("Enter the Employee Name", "Employee Payroll
System", MessageBoxButtons.OK)
txt_name.Focus()
End If
Else
MessageBox.Show("Enter the Employee Number", "Employee Payroll
System", MessageBoxButtons.OK)
txt_empno.Focus()
End If
End Sub

Private Sub btn_delete_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_delete.Click
Dim query As String
Dim result As Integer
If cmb_employee.SelectedIndex > 0 Then
Try

```

```

        If MessageBox.Show("Do U Want to Delete This Record ", "Employee
Payroll System", MessageBoxButtons.OKCancel) = 1 Then
            query = "delete tbl_employee where emp_no= '" +
cmb_employee.SelectedValue.ToString + "'"
            cmd = New SqlCommand(query, con)
            If con.State = ConnectionState.Closed Then
                con.Open()
            End If
            result = cmd.ExecuteNonQuery()
            MessageBox.Show(result.ToString + " rows Deleted ", "Employee
Payroll System", MessageBoxButtons.OKCancel)
            load_employeenno()
            load_grid()
        End If
    Catch ex As Exception
        MessageBox.Show(ex.Message, "Employee Payroll System",
MessageBoxButtons.OKCancel)
    End Try
Else
    MessageBox.Show("Select Employee Number to Delete", "Employee Payroll
System", MessageBoxButtons.OKCancel)
End If

End Sub

Private Sub cmb_employee_SelectedIndexChanged(ByVal sender As System.Object, ByVal
e As System.EventArgs) Handles cmb_employee.SelectedIndexChanged
    Dim query As String
    If cmb_employee.SelectedIndex > 0 Then
        query = "Select * from tbl_employee where emp_no='" +
cmb_employee.SelectedValue.ToString() + "'"
        If con.State = ConnectionState.Closed Then
            con.Open()
        End If

        cmd = New SqlCommand(query, con)
        sdr = cmd.ExecuteReader()

        While sdr.Read()
            txt_empno.Text = sdr.Item(0).ToString()
            txt_name.Text = sdr.Item(1).ToString()
            txt_design.Text = sdr.Item(2).ToString()
            txt_basic.Text = sdr.Item(3).ToString()
        End While
        sdr.Close()
    Else
        Clear()
    End If
End Sub
Public Sub Clear()
    txt_empno.Clear()
    txt_name.Clear()
    txt_design.Clear()
    txt_basic.Clear()
End Sub

Private Sub btn_clear_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_clear.Click
    Clear()
End Sub

```

```

    Private Sub btn_update_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_update.Click
        Dim query As String
        Dim result As Integer
        If cmb_employee.SelectedIndex > 0 Then
            Try
                If MessageBox.Show("Do U Want to Update This Record ", "Employee
Payroll System", MessageBoxButtons.OKCancel) = 1 Then
                    query = "update tbl_employee set emp_name= '" + txt_name.Text +
"', design= '" + txt_design.Text + "',basic_sal= '" + txt_basic.Text + "' "
                    query += " where emp_no= '" + cmb_employee.SelectedValue.ToString
+ "'"

                    cmd = New SqlCommand(query, con)
                    If con.State = ConnectionState.Closed Then
                        con.Open()
                    End If
                    result = cmd.ExecuteNonQuery()
                    MessageBox.Show(result.ToString + " rows Updated ", "Employee
Payroll System", MessageBoxButtons.OKCancel)
                    load_employeeeno()
                    load_grid()
                End If
            Catch ex As Exception
                MessageBox.Show(ex.Message, "Employee Payroll System",
MessageBoxButtons.OKCancel)
            End Try
        Else
            MessageBox.Show("Select Employee Number to Update", "Employee Payroll
System", MessageBoxButtons.OKCancel)
        End If

    End Sub

```

Form: Payroll

```

Imports System
Imports System.Data
Imports System.Data.SqlClient
Public Class Payroll
    Dim con As New SqlConnection("Data Source=LAPTOP-CIPFHUQ\SQLEXPRESS;Initial
Catalog=Employee;Integrated Security=True;Pooling=False")
    Dim cmd As SqlCommand
    Dim sda As SqlDataAdapter
    Dim ds As DataSet
    Dim sdr As SqlDataReader

    Private Sub Payroll_Load(ByVal sender As Object, ByVal e As System.EventArgs)
Handles Me.Load
        Try
            If con.State = ConnectionState.Closed Then
                con.Open()
                load_employeeeno()
            End If
        Catch ex As Exception
            MessageBox.Show(ex.Message, "Employee Payroll System",
MessageBoxButtons.OKCancel)
        End Try
    End Sub
    Public Sub load_employeeeno()
        Dim query As String
        query = "Select 0 as emp_no union Select emp_no from tbl_employee"
        sda = New SqlDataAdapter(query, con)
    End Sub

```

```

ds = New DataSet
sda.Fill(ds)

cmb_employee.DataSource = ds.Tables(0)
cmb_employee.DisplayMember = "emp_no"
cmb_employee.ValueMember = "emp_no"
End Sub

Private Sub cmb_employee_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles cmb_employee.SelectedIndexChanged
    Dim query As String
    Dim basic, hra, ta, mc, pf, ins, net, tax As Double
    If cmb_employee.SelectedIndex > 0 Then
        query = "Select * from tbl_employee where emp_no='" +
cmb_employee.SelectedValue.ToString() + "'"
        If con.State = ConnectionState.Closed Then
            con.Open()
        End If

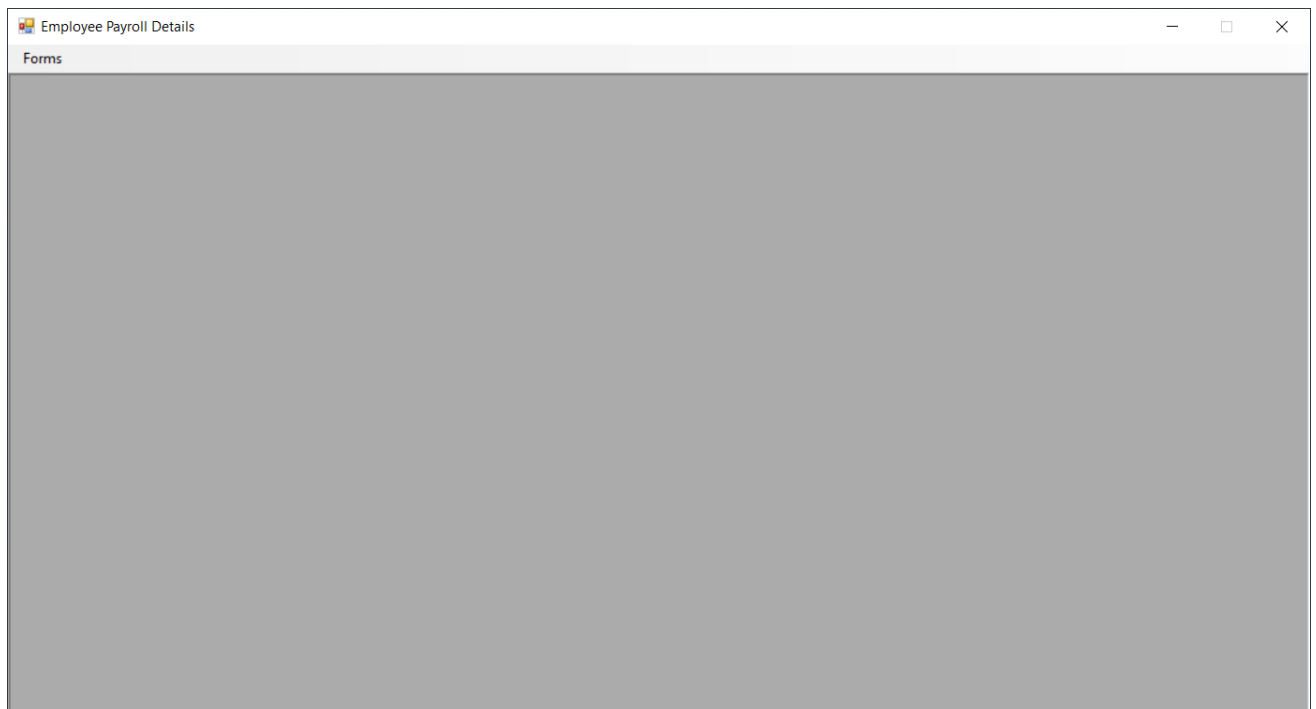
        cmd = New SqlCommand(query, con)
        sdr = cmd.ExecuteReader()

        While sdr.Read()
            txt_name.Text = sdr.Item(1).ToString()
            basic = CDb1(sdr.Item(3))
            txt_basic.Text = basic
            txt_hra.Text = basic * 0.12
            txt_ta.Text = basic * 0.03
            txt_mc.Text = basic * 0.1
            txt_pf.Text = basic * 0.02
            txt_insurance.Text = basic * 0.05
            If basic > 200000 Then
                txt_tax.Text = basic * 0.01
            Else
                txt_tax.Text = 0
            End If
            txt_net.Text = basic + (Val(txt_hra.Text) + Val(txt_ta.Text) +
Val(txt_mc.Text)) - (Val(txt_pf.Text) + Val(txt_insurance.Text) + Val(txt_tax.Text))
        End While
        sdr.Close()
    Else
        Clear()
    End If
End Sub
Public Sub Clear()
    txt_name.Clear()
    txt_basic.Clear()
End Sub

Private Sub btn_clear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btn_clear.Click
    Clear()
End Sub
End Class

```

OUTPUT:



Employee Payroll Details - [Employee Details]

Forms

Employee Details

Employee No:

Employee No:

Name:

Designation:

Basic Salary:

	emp_no	emp_name	design	basic_sal
▶	21312	Sundar	Doctor	300000
	21313	Bhavana	Engineer	130000
	21314	Kinuthiga	Software Engineer	225000
	21315	Rajesh	Data Analyst	200000
	21316	Sankaraj	Executive Officer	350000
*				

Add Delete Update Clear

Employee Payroll Details - [Payroll]

Forms

Payroll Details

Employee No	21314	Name	Kiruthiga
Basic Salary	225000	Gross Salary	263250
House Rent Allowance	27000	PF	4500
Travelling Allowance	6750	Insurance	11250
Medical Claim	22500	Tax	2250

Clear

RESULT:

Thus, pay slip for Employee is calculated successfully.

8- STUDENT MARKSHEET PROCESSING

AIM:

Create a Students Information application using form fields in VB.Net. The form contains basic fields about Student profile and marks obtained, through those fields generate the marksheet for the student.

TABLE QUERY

Create Table tbl_course (course_id Numeric(5) Identity, Course Varchar(30) UNIQUE)

Create Table tbl_Student (Stud_no Numeric (10) UNIQUE, Stud_name Varchar(50), Course Varchar(50))

Create Table stud_marks (examid Numeric(10) IDENTITY, stud_no Numeric (10) References tbl_student(stud_no), mark1 Numeric(10), mark2 Numeric(10), mark3 Numeric(10), mark4 Numeric(10), mark5 Numeric(10))

SOURCE CODE:

Form : (stud_module)

```
Imports System.Data
Imports System.Data.Sql
Imports System.Data.SqlClient
Module stud_module
    Public title As New String("Student Marksheet Processing")
    Public con As New SqlConnection("Data Source=LAPTOP-CIPFHHUQ\SQLEXPRESS;Initial
Catalog=Employee;Integrated Security=True;Pooling=False")
    Public cmd As SqlCommand
    Public sda As SqlDataAdapter
    Public ds As DataSet
    Public sdr As SqlDataReader
    Public query As String
    Public result As Integer
End Module
```

Form : (frm_Student)

```
Imports System
Imports System.Data
Imports System.Data.SqlClient

Public Class frm_student

    Public Sub load_course_grid()
        query = "Select course_id as 'Course ID', course as 'Course' from tbl_course"

        sda = New SqlDataAdapter(query, con)
        ds = New DataSet
        sda.Fill(ds)

        dgv_Course.DataSource = ds
        dgv_Course.DataMember = ds.Tables(0).TableName
    End Sub

End Class
```

```

Public Sub load_Student_grid()
    query = "Select Stud_no as 'Student Number', Stud_name as 'Name', c.Course
from tbl_student s, tbl_course c where s.course= c.course_id"

    sda = New SqlDataAdapter(query, con)
    ds = New DataSet
    sda.Fill(ds)

    dgv_student.DataSource = ds
    dgv_student.DataMember = ds.Tables(0).TableName
End Sub

Public Sub load_Stud_marks()
    query = " Select Examid, s.Stud_no as 'Stud No', Stud_name as
'Name',Mark1,Mark2,Mark3,Mark4,Mark5, "
    query += " (Select SUM(mark1+mark2+mark3+mark4+mark5) from stud_marks tm where
tm.stud_no= sm.stud_no and tm.examid= sm.examid) as Total,"
    query += " (Select case when mark1> 35 and mark2>35 and mark3>35 and mark4>35
and mark5>35 then 'Pass' Else 'Fail' End as 'Result' from stud_marks rm where
rm.stud_no= sm.stud_no and rm.examid= sm.examid) as Result"
    query += " from tbl_Student s, stud_marks sm where s.Stud_no= sm.stud_no"
    sda = New SqlDataAdapter(query, con)
    ds = New DataSet
    sda.Fill(ds)

    dgv_marks.DataSource = ds
    dgv_marks.DataMember = ds.Tables(0).TableName
End Sub
Public Sub load_course()
    Dim query As String
    query = "Select 0 as course_id, 'Select Course' as course union select
course_id,course from tbl_course order by course_id "
    sda = New SqlDataAdapter(query, con)
    ds = New DataSet
    sda.Fill(ds)

    cmb_course.DataSource = ds.Tables(0)
    cmb_course.DisplayMember = "course"
    cmb_course.ValueMember = "course_id"
End Sub
Public Sub Stud_Clear()
    txt_name.Clear()
    txt_Studno.Clear()
    cmb_course.SelectedIndex = 0
End Sub
Public Sub Mark_Clear()
    txt_MStud_no.Clear()
    txt_MStud_name.Clear()
    txt_Mcourse.Clear()
    txt_mark1.Clear()
    txt_mark2.Clear()
    txt_mark3.Clear()
    txt_mark4.Clear()
    txt_mark5.Clear()
    txt_result.Clear()
    txt_Total.Clear()
    txt_MStud_no.Focus()
End Sub

Private Sub frm_student_Load(ByVal sender As Object, ByVal e As System.EventArgs)
Handles Me.Load
    Try

```

```

        If con.State = ConnectionState.Closed Then
            con.Open()
        End If
        load_course_grid()
        load_course()
        load_Student_grid()
        load_Stud_marks()
    Catch ex As Exception
        MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
    End Try

End Sub

Private Sub btn_course_Add_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_course_Add.Click
    Dim course As String
    course = InputBox("Enter the Course to Add", title)
    If course.Length > 0 Then
        query = "insert into tbl_course values('" + course + "')"
        Try
            cmd = New SqlCommand(query, con)
            If con.State = ConnectionState.Closed Then
                con.Open()
            End If
            result = cmd.ExecuteNonQuery()
            MessageBox.Show(result.ToString + " Rows Inserted :", title,
MessageBoxButtons.OK)
            load_course_grid()
            load_course()
        Catch ex As SqlException
            If ex.Number = 2627 Then
                MessageBox.Show("Course is Already Entered, Duplicate is Not
allowed:", title, MessageBoxButtons.OK)
            Else
                MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
            End If
        Catch ex As Exception
            MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
        End Try
    Else
        MessageBox.Show("Course is Mandatory :", title, MessageBoxButtons.OK)
    End If
End Sub

Private Sub btn_course_Delete_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_course_Delete.Click
    Dim course As String
    course = InputBox("Enter the Course ID to Delete", title, 0)
    If course.Length > 0 Then
        query = "delete tbl_course where course_id= " + course
        Try
            cmd = New SqlCommand(query, con)
            If con.State = ConnectionState.Closed Then
                con.Open()
            End If
            result = cmd.ExecuteNonQuery()
            If result > 0 Then
                MessageBox.Show(result.ToString + " Rows deleted :", title,
MessageBoxButtons.OK)
                load_course_grid()
            Else

```

```

        MessageBox.Show(" Course ID Not Found :", title,
MessageBoxButtons.OK)
    End If
    Catch ex As Exception
        MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
    End Try
Else
    MessageBox.Show("Course id is Mandatory :", title, MessageBoxButtons.OK)
End If
End Sub

Private Sub btn_course_update_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_course_update.Click
    Dim course, newcourse As String
    Dim id As String
    id = InputBox("Enter the Course ID to Update ", title, 0)
    If id.Length > 0 Then
        query = "Select course from tbl_course where course_id= " + id
        Try
            cmd = New SqlCommand(query, con)
            If con.State = ConnectionState.Closed Then
                con.Open()
            End If
            course = cmd.ExecuteScalar()
            If course <> Nothing Then
                newcourse = InputBox("Enter the Course to Update ", title, course)
                If newcourse.Length > 0 Then
                    query = "Update tbl_course set course = '" + newcourse + "'
where course_id= " + id
                    Try
                        cmd = New SqlCommand(query, con)
                        If con.State = ConnectionState.Closed Then
                            con.Open()
                        End If
                        result = cmd.ExecuteNonQuery()
                        If result > 0 Then
                            MessageBox.Show(result.ToString + " Rows updated :",
title, MessageBoxButtons.OK)
                            load_course_grid()
                        Else
                            MessageBox.Show(" Course ID Not Found :", title,
MessageBoxButtons.OK)
                        End If
                    Catch ex As SqlException
                        If ex.Number = 2627 Then
                            MessageBox.Show("Course is Already Entered, Duplicate
is Not allowed:", title, MessageBoxButtons.OK)
                        Else
                            MessageBox.Show(ex.Message, title,
MessageBoxButtons.OK)
                        End If
                    End Try
                End If
            End If
            Catch ex As Exception
                MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
            End Try
        End If
    Else
        MessageBox.Show(" Course ID Not Found :", title,
MessageBoxButtons.OK)
    End If
    Catch ex As Exception
        MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
    End Try
End Sub

```

```

        Else
            MessageBox.Show("Course id is Mandatory :", title, MessageBoxButtons.OK)
        End If
    End Sub

    Private Sub btn_Stud_Add_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_Stud_Add.Click
        If Valid() = True Then
            Try
                query = "insert into tbl_student values(" + txt_Studno.Text + "," + txt_name.Text +
",'" + cmb_course.SelectedValue.ToString + "')"
                cmd = New SqlCommand(query, con)
                If con.State = ConnectionState.Closed Then
                    con.Open()
                End If
                result = cmd.ExecuteNonQuery
                MessageBox.Show(result.ToString + " Rows Inserted :", title,
MessageBoxButtons.OK)
                load_Student_grid()
                Stud_Clear()
            Catch ex As SqlException
                If ex.Number = 2627 Then
                    MessageBox.Show("Student No is Already Entered, Duplicate is Not
allowed:", title, MessageBoxButtons.OK)
                    Stud_Clear()
                Else
                    MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
                    Stud_Clear()
                End If
            Catch ex As Exception
                MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
            End Try
        End If
    End Sub

    Public Function Valid()
        If txt_Studno.Text.Length > 0 Then
            If txt_name.Text.Length > 0 Then
                If cmb_course.SelectedIndex > 0 Then
                    Return True
                Else
                    MessageBox.Show("Select Course, Course cannot be Blank", title,
MessageBoxButtons.OK)
                    cmb_course.Focus()
                    Return False
                End If
            Else
                MessageBox.Show("Enter the Student Name,Student Name cannot be Blank",
title, MessageBoxButtons.OK)
                txt_name.Focus()
                Return False
            End If
        Else
            MessageBox.Show("Enter Student No , Student No cannot be Blank", title,
MessageBoxButtons.OK)
            txt_Studno.Focus()
            Return False
        End If
    End Function

    Private Sub btn_Stud_delete_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_Stud_delete.Click
        Dim stud_id As String

```

```

Stud_Clear()
stud_id = InputBox("Enter the Student ID to Delete", title, 0)
If stud_id.Length > 0 Then
    query = "delete tbl_student where stud_no= " + stud_id
    Try
        cmd = New SqlCommand(query, con)
        If con.State = ConnectionState.Closed Then
            con.Open()
        End If
        result = cmd.ExecuteNonQuery()
        If result > 0 Then
            MessageBox.Show(result.ToString + " Rows deleted :", title,
MessageBoxButtons.OK)
            load_Student_grid()
        Else
            MessageBox.Show(" Student ID Not Found :", title,
MessageBoxButtons.OK)
        End If
    Catch ex As Exception
        MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
    End Try
Else
    MessageBox.Show("Student id is Mandatory :", title, MessageBoxButtons.OK)
End If
End Sub

Private Sub btn_Stud_Update_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_Stud_Update.Click
    Dim stud_id As String
    Dim stud_name As String
    Dim course_id As String
    Stud_Clear()
    stud_id = InputBox("Enter the Student ID to Update", title, 0)
    Try
        If stud_id.Length > 0 Then
            query = "Select * from tbl_student where Stud_no= " + stud_id
            cmd = New SqlCommand(query, con)
            sdr = cmd.ExecuteReader
            If sdr.HasRows = True Then
                While sdr.Read
                    txt_Studno.Text = sdr.Item(0).ToString
name:
                    stud_name = InputBox("Enter the Student Name to Update",
title, sdr.Item(1).ToString)
                    If stud_name.Length <> 0 Then
                        txt_name.Text = stud_name
                    Else
                        MessageBox.Show("Student Name cannot be Blank", title,
MessageBoxButtons.OK)
                        GoTo name
                    End If
course:
                    course_id = InputBox("Enter the Course id to Update", title,
sdr.Item(2).ToString)
                    If course_id.Length <> 0 Then
                        cmb_course.SelectedIndex = course_id
                    Else
                        MessageBox.Show("Select Course id, Course_id cannot be
Blank", title, MessageBoxButtons.OK)
                        GoTo course
                    End If
                End While
            End While
        End Try
    End Sub

```

```

        sdr.Close()
        If Valid() = True Then
            query = "Update tbl_student set stud_name= '" + txt_name.Text
+ "'", course= " + cmb_course.SelectedIndex.ToString + "where stud_no= " + stud_id
            cmd = New SqlCommand(query, con)
            If con.State = ConnectionState.Closed Then
                con.Open()
            End If
            result = cmd.ExecuteNonQuery()
            MessageBox.Show(result.ToString + " Rows updated :", title,
MessageBoxButtons.OK)
            load_Student_grid()
        End If
        Stud_Clear()
    Else
        MessageBox.Show("Student id Not found :", title,
MessageBoxButtons.OK)
    End If
    sdr.Close()
Else
    MessageBox.Show("Student id is Mandatory :", title,
MessageBoxButtons.OK)
End If
Catch ex As ArgumentException
    MessageBox.Show("Course Id Not Found to Update", title,
MessageBoxButtons.OK)
    Stud_Clear()
Catch ex As Exception
    MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
    Stud_Clear()
End Try

End Sub

Private Sub btn_Stud_Clear_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_Stud_Clear.Click
    Stud_Clear()
End Sub

Private Sub txt_MStud_no_Leave(ByVal sender As Object, ByVal e As
System.EventArgs) Handles txt_MStud_no.Leave
    If txt_MStud_no.Text.Length > 0 Then
        Try
            query = "Select Stud_name, c.Course from tbl_student s, tbl_course c
where s.course= c.course_id and Stud_no= " + txt_MStud_no.Text
            cmd = New SqlCommand(query, con)
            If con.State = ConnectionState.Closed Then
                con.Open()
            End If
            sdr = cmd.ExecuteReader

            If sdr.HasRows = True Then
                While sdr.Read
                    txt_MStud_name.Text = sdr.Item(0).ToString
                    txt_Mcourse.Text = sdr.Item(1).ToString
                End While
            Else
                MessageBox.Show("Student No Not Found", title,
MessageBoxButtons.OK)
                Mark_Clear()
            End If
            sdr.Close()

```

```

        Catch ex As Exception
            MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
        End Try
    End If

End Sub

Private Sub btn_MAdd_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_MAdd.Click
    Dim tot, m1, m2, m3, m4, m5 As Integer
    Dim exam_result As String

    Try
        If Valid_Marks() = True Then
            m1 = Val(txt_mark1.Text)
            m2 = Val(txt_mark2.Text)
            m3 = Val(txt_mark3.Text)
            m4 = Val(txt_mark4.Text)
            m5 = Val(txt_mark5.Text)
            tot = m1 + m2 + m3 + m4 + m5
            txt_Total.Text = tot.ToString
            If m1 > 35 And m2 > 35 And m3 > 35 And m4 > 35 And m5 > 35 Then
                exam_result = "Pass"
            Else
                exam_result = "Fail"
            End If

            txt_result.Text = exam_result

            query = "insert into Stud_marks values('" + txt_MStud_no.Text + "','" +
txt_mark1.Text + "','" + txt_mark2.Text + "','" + txt_mark3.Text + "','" + txt_mark4.Text +
','" + txt_mark5.Text + "')"
            cmd = New SqlCommand(query, con)
            If con.State = ConnectionState.Closed Then
                con.Open()
            End If
            result = cmd.ExecuteNonQuery()
            MessageBox.Show(result.ToString + " Rows Inserted :", title,
MessageBoxButtons.OK)
            load_Stud_marks()
            Mark_Clear()
        End If
        Catch ex As Exception
            MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
        End Try

    End Sub

Public Function Valid_Marks()
    If txt_MStud_no.Text.Length > 0 Then
        If txt_mark1.Text.Length > 0 Then
            If txt_mark2.Text.Length > 0 Then
                If txt_mark3.Text.Length > 0 Then
                    If txt_mark4.Text.Length > 0 Then
                        If txt_mark5.Text.Length > 0 Then
                            Return True
                        Else
                            MessageBox.Show("Mark 5 are Mandatory", title,
MessageBoxButtons.OK)
                            txt_mark5.Focus()
                        End If
                    Else

```

```

        MessageBox.Show("Mark 4 are Mandatory", title,
MessageBoxButtons.OK)
        txt_mark4.Focus()
    End If
Else
    MessageBox.Show("Mark 3 are Mandatory", title,
MessageBoxButtons.OK)
    txt_mark3.Focus()
End If
Else
    MessageBox.Show("Mark 2 are Mandatory", title,
MessageBoxButtons.OK)
    txt_mark2.Focus()
End If
Else
    MessageBox.Show("Mark 1 are Mandatory", title, MessageBoxButtons.OK)
    txt_mark1.Focus()
End If
Else
    MessageBox.Show("Student No is Mandatory", title, MessageBoxButtons.OK)
    txt_MStud_no.Focus()
End If
Return False
End Function

Private Sub txt_MStud_no_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles txt_MStud_no.TextChanged

    End Sub

Private Sub btn_Mclear_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_Mclear.Click
    Mark_Clear()
End Sub

Private Sub btn_MDelete_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_MDelete.Click
    Dim examid As String
    Dim id As String

    Try
        examid = InputBox("Enter the Exam id to Update ", title,
MessageBoxButtons.OK)
        If examid.Length > 0 Then
            query = " Select Stud_no from stud_marks where examid = " + examid
            cmd = New SqlCommand(query, con)
            id = cmd.ExecuteScalar
            If id <> Nothing Then
                query = "Delete stud_marks where examid= " + examid
                cmd = New SqlCommand(query, con)
                If con.State = ConnectionState.Closed Then
                    con.Open()
                End If
                result = cmd.ExecuteNonQuery
                MessageBox.Show(result.ToString + " Rows deleted :", title,
MessageBoxButtons.OK)
                load_Stud_marks()
                Mark_Clear()
            Else
                MessageBox.Show("Exam id Not Found", title, MessageBoxButtons.OK)
            End If
        Else

```

```

        MessageBox.Show("Exam id is Mandatory to Delete Record :", title,
        MessageBoxButtons.OK)
    End If
    Catch ex As Exception
        MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
    End Try
End Sub

Private Sub btn_MUpdate_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btn_MUpdate.Click
    Dim m1, m2, m3, m4, m5 As String
    Dim examid As String

    Try
        examid = InputBox("Enter the Exam id to Update ", title,
        MessageBoxButtons.OK)
        If examid.Length > 0 Then
            query = " Select s.Stud_no, Stud_name,
c.Course,mark1,mark2,mark3,mark4,mark5 from tbl_student s, tbl_course c, stud_marks sm
"
            query += " where s.course = c.course_id And s.Stud_no = sm.stud_no And
examid = " + examid
            cmd = New SqlCommand(query, con)
            sdr = cmd.ExecuteReader
            If sdr.HasRows = True Then
                While sdr.Read
                    txt_MStud_no.Text = sdr.Item(0).ToString
                    txt_MStud_name.Text = sdr.Item(1).ToString
                    txt_Mcourse.Text = sdr.Item(2).ToString
mark1:
                    m1 = InputBox("Enter the mark1 to Update ", title,
sdr.Item(3).ToString)
                    If m1.Length = 0 Then
                        MessageBox.Show("Mark1 cannot be Blank", title,
                        MessageBoxButtons.OK)
                        GoTo mark1
                    End If
mark2:
                    m2 = InputBox("Enter the mark2 to Update ", title,
sdr.Item(4))
                    If m2.Length = 0 Then
                        MessageBox.Show("Mark2 cannot be Blank", title,
                        MessageBoxButtons.OK)
                        GoTo mark2
                    End If
mark3:
                    m3 = InputBox("Enter the mark3 to Update ", title,
sdr.Item(5))
                    If m3.Length = 0 Then
                        MessageBox.Show("Mark3 cannot be Blank", title,
                        MessageBoxButtons.OK)
                        GoTo mark3
                    End If
mark4:
                    m4 = InputBox("Enter the mark4 to Update ", title,
sdr.Item(6))
                    If m4.Length = 0 Then
                        MessageBox.Show("Mark4 cannot be Blank", title,
                        MessageBoxButtons.OK)
                        GoTo mark4
                    End If
mark5:

```

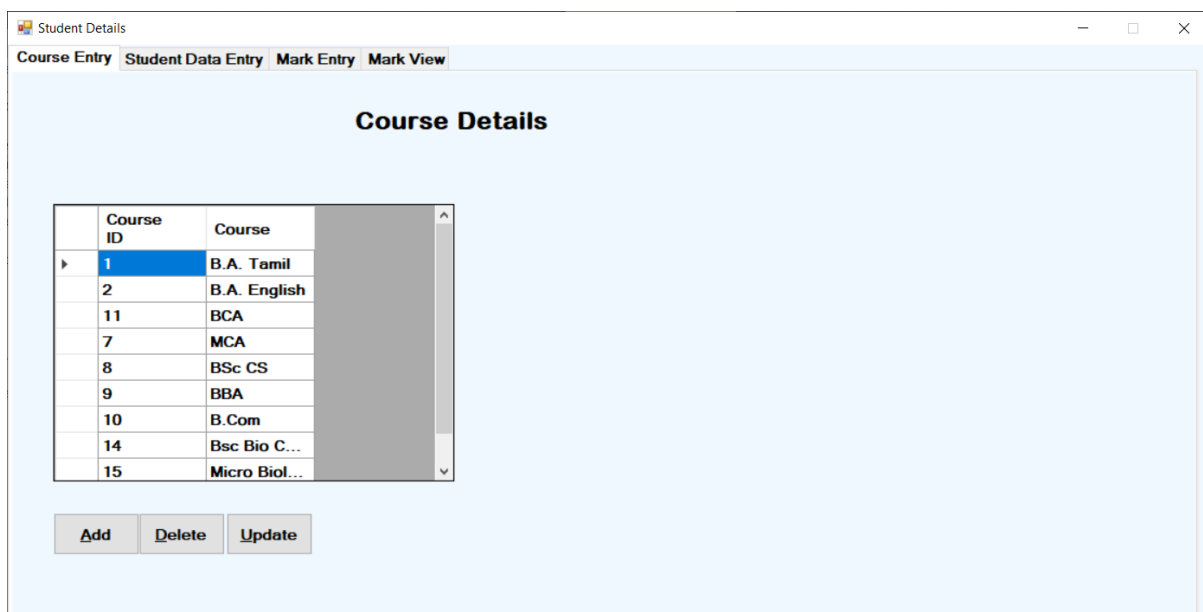
```

sdr.Item(7))
        m5 = InputBox("Enter the mark5 to Update ", title,
        If m1.Length = 0 Then
            MessageBox.Show("Mark5 cannot be Blank", title,
MessageBoxButtons.OK)
            GoTo mark5
        End If
    End While
    sdr.Close()
    query = "Update Stud_marks set mark1=" + m1 + ", mark2= " + m2 +
",mark3= " + m3
    query += ",mark4= " + m4 + ",mark5= " + m5 + " where examid= " +
examid.ToString
    cmd = New SqlCommand(query, con)
    If con.State = ConnectionState.Closed Then
        con.Open()
    End If
    result = cmd.ExecuteNonQuery()
    MessageBox.Show(result.ToString + " Rows Updated :", title,
MessageBoxButtons.OK)
    load_Stud_marks()
    Mark_Clear()

Else
    MessageBox.Show("Exam id Not found :", title,
MessageBoxButtons.OK)
End If
Else
    MessageBox.Show("Exam id is Mandatory to Update ", title,
MessageBoxButtons.OK)
End If
Catch ex As Exception
    MessageBox.Show(ex.Message, title, MessageBoxButtons.OK)
End Try
End Sub
End Class

```

OUTPUT:



Student Details

Course Entry

Student Data Entry

Mark Entry

Mark View

Student Details

Student No

Student Name

Course

Select Course

Add

Delete

Update

Clear

	Student Number	Name	Course
▶	21313	Sundar	BCA
	21315	Keerthi	MCA
	21312	Praveen	BSc CS
	21314	Sankar	BBA
*			

Student Details

Course Entry

Student Data Entry

Mark Entry

Mark View

Student Mark Details

Student No

Student Name

Course

Mark 1

Mark 2

Mark 3

Mark 4

Mark 5

Total

Result

Add

Delete

Update

Clear

Student Details

Course Entry Student Data Entry Mark Entry Mark View

	Examid	Stud No	Name	Mark1	Mark2	Mark3	Mark4	Mark5	Total	Result
▶	1	21312	Praveen	30	50	50	60	80	270	Fail
	3	21312	Praveen	50	45	50	65	70	280	Pass
	5	21315	Keerthi	80	85	90	95	100	450	Pass
	6	21313	Sundar	30	35	40	45	50	200	Fail
*										

RESULT:

Thus, Student marksheet processing has been implemented successfully.

9- COLLEGE INFORMATION WEBSITE

AIM:

Create a College Information website using ASP.Net. The website contains basic information about college, courses offered and fees structure pages.

SOURCE CODE:

SITE.MASTER

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site.master.cs"
Inherits="Collegeinformation.SiteMaster" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
<head runat="server">
    <title></title>
    <link href="~/Styles/Site.css" rel="stylesheet" type="text/css" />
    <asp:ContentPlaceHolder ID="HeadContent" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body>
    <form runat="server">
    <div class="page">
        <div class="header">
            <div class="title" align="center">
                <asp:Image ID="Image1" runat="server" ImageUrl="~/Images/header2.jpg" />
            </div>
            <div class="loginDisplay">
                <asp:LoginView ID="HeadLoginView" runat="server" EnableViewState="false">
                    <AnonymousTemplate>
                        [ <a href="~/Account/Login.aspx" ID="HeadLoginStatus"
runat="server">Log In</a> ]
                    </AnonymousTemplate>
                    <LoggedInTemplate>
                        Welcome <span class="bold"><asp:LoginName ID="HeadLoginName"
runat="server" /></span>!
                        [ <asp:LoginStatus ID="HeadLoginStatus" runat="server"
LogoutAction="Redirect" LogoutText="Log Out" LogoutPageUrl="~/"/> ]
                    </LoggedInTemplate>
                </asp:LoginView>
            </div>
            <div class="clear hideSkiplink">
                <asp:Menu ID="NavigationMenu" runat="server" CssClass="menu"
EnableViewState="false" IncludeStyleBlock="false" Orientation="Horizontal">
                    <Items>
                        <asp:MenuItem NavigateUrl="~/Default.aspx" Text="Home"/>
                        <asp:MenuItem NavigateUrl="~/About.aspx" Text="About"/>
                        <asp:MenuItem NavigateUrl="Courses.aspx" Text="Course"/>
                        <asp:MenuItem NavigateUrl="Fees Structure.aspx" Text="Fees
Structure"/>
                    </Items>
                </asp:Menu>
            </div>
            <div class="main">
                <asp:ContentPlaceHolder ID="MainContent" runat="server"/>
            </div>
        </div>
    </form>
</body>
</html>
```

```

        </div>
        <div class="clear">
        </div>
    </div>
    <div class="footer">

    </div>
</form>
</body>
</html>

```

DEFAULT.ASPX

```

<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.master"
AutoEventWireup="true"
    CodeBehind="Default.aspx.cs" Inherits="Collegeinformation._Default" %>

<asp:Content ID="HeaderContent" runat="server" ContentPlaceHolderID="HeadContent">
</asp:Content>
<asp:Content ID="BodyContent" runat="server" ContentPlaceHolderID="MainContent">
    <h2>
        Lab Exercise No-9
    </h2>
    <p>
        College Website with Basic Information about list of Courses and Fees Structures
    </p>
</asp:Content>

```

ABOUT.ASPX

```

<%@ Page Title="About Us" Language="C#" MasterPageFile="~/Site.master"
AutoEventWireup="true"
    CodeBehind="About.aspx.cs" Inherits="Collegeinformation.About" %>

<asp:Content ID="HeaderContent" runat="server" ContentPlaceHolderID="HeadContent">
</asp:Content>
<asp:Content ID="BodyContent" runat="server" ContentPlaceHolderID="MainContent">
    <h2> About </h2>
    <table >
    <tr style="height: 20px">
    <td align="justify"
        style="font-family: Arial, Helvetica, sans-serif; font-size: 16px; font-
weight: bolder; color: #0000FF; text-decoration: blink;">
        The Adhiparasakthi Charitable, Medical, Educational and Cultural trust,
        Melmaruvathur renders dedicated service to the cause of education and service to humanity
        by establishing several Institutions and other units. The members of the trust are
        people of eminence in various walks of the life viz., Education, Research, Industry,
        Business and Administration. His Holiness Arulthiru BANGARU ADIGALAR is the Founder -
        President of the trust. Adhiparasakthi Institute of Science, Agriculture and Technology
        (APISAT) founded by the trust are committed to quality, innovation, dynamism and social
        relevance. Study, Spirituality and Service are its MOTTO. Inculcation of character and
        virtues, besides academic training are its hallmark. Duty, Dignity and Discipline are
        its watch words. It is keen that students should be model citizens with eminence and
        excellence in our society.
    </td>
    </tr>
    <tr style="height: 20px">
    <td>
    </td>
    </tr>

```

```

</tr>
<tr style="height: 20px">
<td align="justify"
style="font-family: Arial, Helvetica, sans-serif; font-size: 16px; font-
weight: bolder; color: #0000FF; text-decoration: blink;">
Adhiparasakthi College of Science was the first self-financing college started in the
year 1988. It was affiliated to Madras University till the academic year 2000 - 2001
and from the year 2001 - 2002 onwards it is affiliated to Thiruvalluvar University,
Vellore. To begin with three undergraduate courses Viz., B.Sc., Biochemistry,
Microbiology and Computer Science were offered. In the year 1993-94, the college was
upgraded as postgraduate college and started offering M.C.A., programme. From 1994-95,
M.Sc., Biochemistry and M.Sc., Applied Microbiology were added. In the year 1999-2000,
B.C.A was introduced. From 2001-2002 M.Sc., Information Technology and M.Sc., Computer
Science and technology were offered in the college. B.Com and B.B.A courses were
introduced from 2004-2005. M.Phil (Full time and part time) in Computer science,
Biochemistry and Microbiology were introduced in 2004-2005. M.Com was introduced from
2007-2008. The college has been recognized as a center for Ph.D. Programmes in
Biochemistry and Microbiology in the year 2008. B.Sc (Mathematics) course was introduced
from 2012-2013. The college has been accredited by NAAC with B++ grade from 2007 and
reaccredited with B Grade with a CGPA score of 2.83 in 2014. The college has received
permanent affiliation from the Thiruvalluvar University during 2008-2009. The College
is conferred with Autonomous status from the year 2011-2012.
<br />
</td>
</tr>
<tr style="height: 20px">
<td>
</td>
</tr>
<tr style="height: 20px">
<td align="justify"
style="font-family: Arial, Helvetica, sans-serif; font-size: 16px; font-
weight: bolder; color: #0000FF; text-decoration: blink;">
The College has a total building area of 10092.97 square meters. It contains two separate
buildings for UG and PG courses with well-equipped laboratories and spacious class
rooms. There is a hygienic canteen, which provides beverages, breakfast and lunch.
Separate Hostels are available for boys and girls. The hostels provide hygienic
vegetarian food. The students enjoy a pollution free, calm and serene atmosphere.
<br />
</td>
</tr>
</table>
</asp:Content>

```

COURSES.ASPX

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Courses.aspx.cs" Inherits="Collegeinformation.Courses" %>
<asp:Content ID="Content1" ContentPlaceHolderID="HeadContent" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
<h2> Courses </h2>
<table width= "100%">
<tr >
<td style="font-size: 16px; font-family: 'Courier New', Courier, monospace">
<asp:Label ID="Label1" runat="server" Text="U.G Courses " Font-Bold="True" Font-
Size="Medium"></asp:Label>
<br />
B.B.A.,
<br />
B.C.A.,

```

```

    <br />
    B.Com.,
    <br />
    B.Sc., Biochemistry
    <br />
    B.Sc., Computer Science
    <br />
    B.Sc., Microbiology
    <br />
    B.Sc., Mathematics
    <br />
  </td>
</tr>
<tr>
  <td style="font-size: 16px; font-family: 'Courier New', Courier, monospace">
    <asp:Label ID="Label2" runat="server" Text="P.G Courses " Font-Bold="True" Font-
    Size="Medium"></asp:Label>
    <br />
    M.C.A.,
    <br />
    M.Com.,
    <br />
    M.Sc., Biochemistry
    <br />
    M.Sc., Applied Microbiology
    <br />
    M.Sc., Information Technology
    <br />
    M.Sc., Mathematics
    <br />
  </td>
</tr>
<tr>
  <td style="font-size: 16px; font-family: 'Courier New', Courier, monospace">
    <asp:Label ID="Label3" runat="server" Text="Research Programmes " Font-
    Bold="True" Font-Size="Medium"></asp:Label>
    <br />
    M.Phil., Biochemistry
    <br />
    M.Phil., Computer Science
    <br />
    M.Phil., Microbiology
    <br />
    M.Phil., Commerce
    <br />
    M.Phil., Mathematics
    <br />
    Ph.D. in Biochemistry
    <br />
    Ph.D. in Microbiology
    <br />
    Ph.D. in Computer Science
    <br />
    Ph.D. in Commerce
    <br />
  </td>
</tr>
</table>
</asp:Content>

```

[FEES STRUCTURE.ASPX](#)

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Fees_Structure.aspx.cs" Inherits="Collegeinformation.Fees_Structure" %>
<asp:Content ID="Content1" ContentPlaceHolderID="HeadContent" runat="server">
    <style type="text/css">
        .style1
        {
            width: 301px;
        }
    </style>
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
<h2> Fees Structures</h2>
<table width= "100%">
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">
Course
</td>
<td style="font-weight: bold; font-size: 16px">
Fees
</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

BBA</td>
<td style="font-weight: bold; font-size: 16px">

8000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

BCA</td>
<td style="font-weight: bold; font-size: 16px">

30000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

B.Com</td>
<td style="font-weight: bold; font-size: 16px">

10000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

B.Sc., Biochemistry</td>
<td style="font-weight: bold; font-size: 16px">

12000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

B.Sc., Computer Science

</td>
<td style="font-weight: bold; font-size: 16px">

```

```

30000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">
B.Sc., Microbiology</td>
<td style="font-weight: bold; font-size: 16px">

12000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">
B.Sc., Mathematics</td>
<td style="font-weight: bold; font-size: 16px">

4000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">
M.C.A.,</td>
<td style="font-weight: bold; font-size: 16px">

30000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">
M.Com</td>
<td style="font-weight: bold; font-size: 16px">

15000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">
M.Sc., Biochemistry</td>
<td style="font-weight: bold; font-size: 16px">

15000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">
M.Sc., Applied Microbiology
</td>
<td style="font-weight: bold; font-size: 16px">

15000</td>
</tr>
<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">
M.Sc., Information Technology
</td>
<td style="font-weight: bold; font-size: 16px">

```

25000
M.Sc., Mathematics
8000
M.Phil., Biochemistry
30000
M.Phil., Computer Science
50000
M.Phil., Microbiology
30000
M.Phil., Commerce
30000
M.Phil., Mathematics

```

</td>
<td style="font-weight: bold; font-size: 16px">

    30000</td>
</tr>

<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

Ph.D. in Biochemistry</td>
<td style="font-weight: bold; font-size: 16px">

    30000</td>
</tr>

<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

Ph.D. in Microbiology

</td>
<td style="font-weight: bold; font-size: 16px">

    30000</td>
</tr>

<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

Ph.D. in Computer Science</td>
<td style="font-weight: bold; font-size: 16px">

    50000</td>
</tr>

<tr>
<td style="font-weight: bold; font-size: 16px" class="style1">

Ph.D. in Commerce</td>
<td style="font-weight: bold; font-size: 16px">

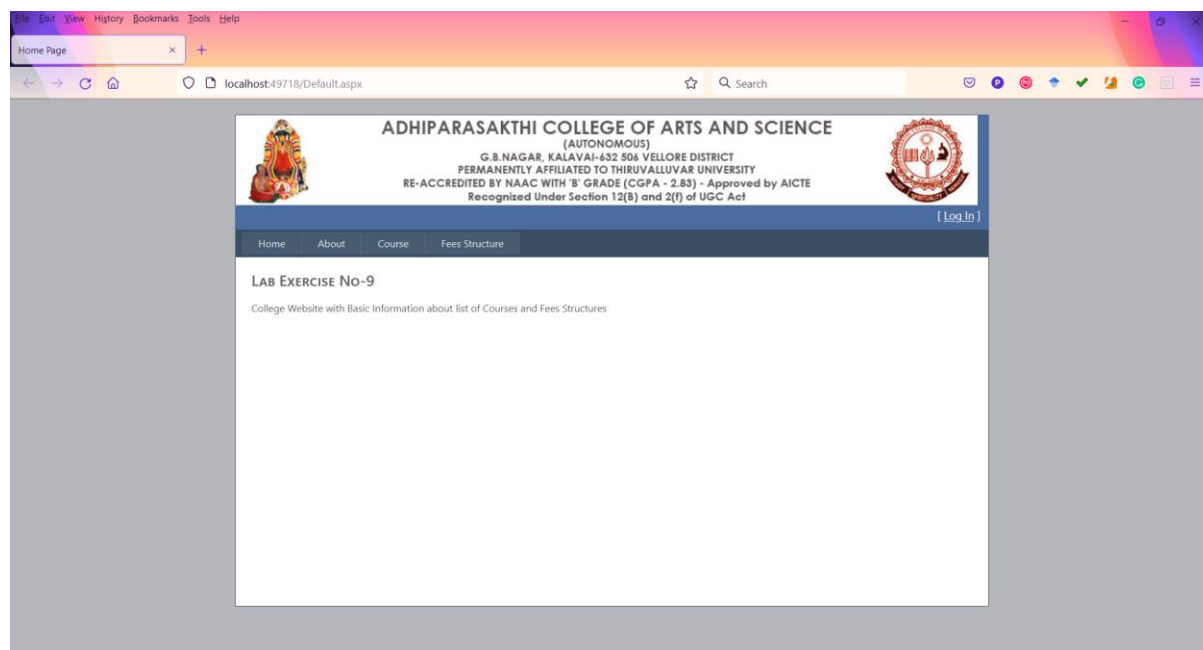
    30000</td>
</tr>

</table>
</asp:Content>

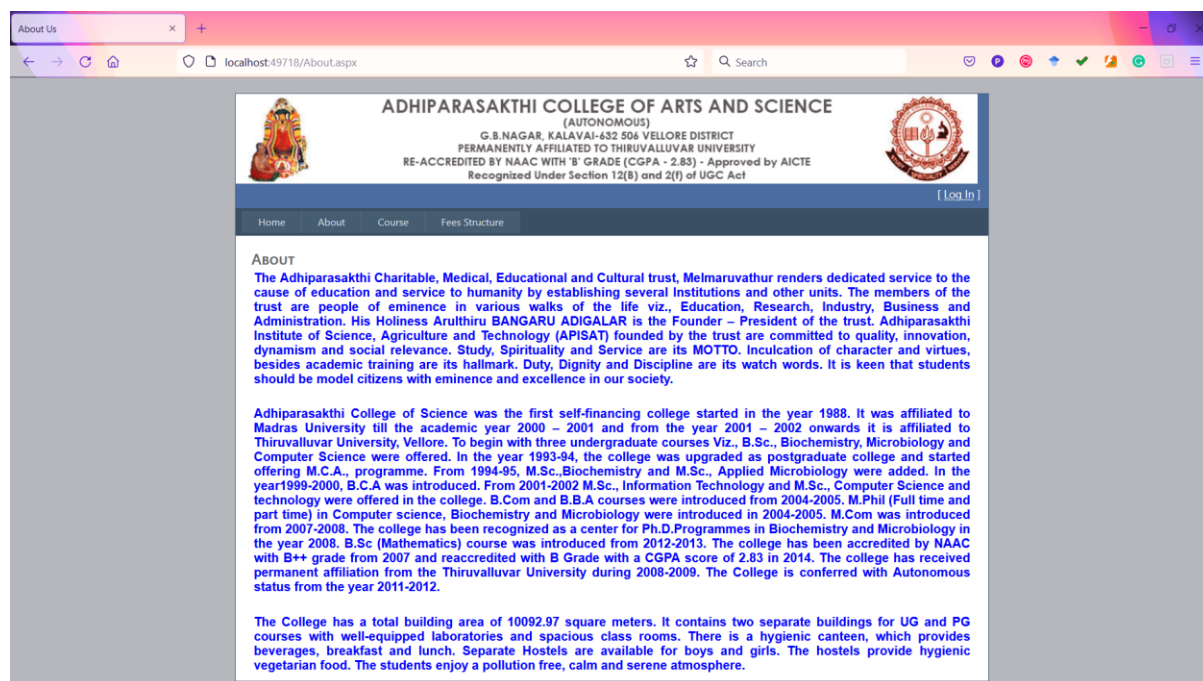
```

OUTPUT:

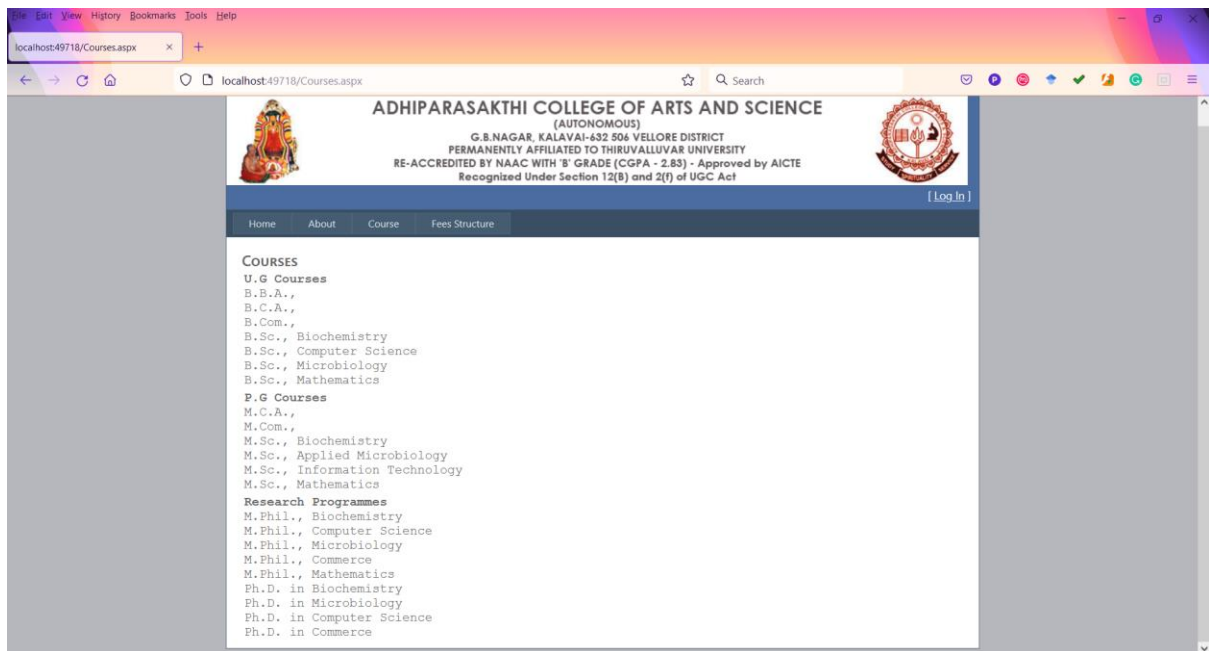
HOME.ASPX



ABOUT.ASPX



COURSES.ASPX



FEES STRUCTURE.ASPX

The screenshot shows the website of ADHIPARASAKTHI COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS). The page is titled "FEES STRUCTURES" and displays a table of fees for various courses.

Course	Fees
BBA	8000
BCA	30000
B.Com	10000
B.Sc., Biochemistry	12000
B.Sc., Computer Science	30000
B.Sc., Microbiology	12000
B.Sc., Mathematics	4000
M.C.A.,	30000
M.Com	15000
M.Sc., Biochemistry	15000
M.Sc., Applied Microbiology	15000
M.Sc., Information Technology	25000
M.Sc., Mathematics	8000
M.Phil., Biochemistry	30000
M.Phil., Computer Science	50000
M.Phil., Microbiology	30000
M.Phil., Commerce	30000
M.Phil., Mathematics	30000
Ph.D. in Biochemistry	30000
Ph.D. in Microbiology	30000

RESULT:

Thus, College information website has been created successfully.

10- ONLINE RECRUITMENT SYSTEM

AIM:

Create an online recruitment system using ASP.Net. The website maintains two users, Admin and user. Admin can post a job and view the list of jobs posted. Whereas the user can only view the posted jobs.

SQL COMMANDS

Create table **tbl_new_job**(Jobid Numeric(5) identity primary key, title varchar(50), description varchar(100), eligi varchar(50), location varchar(25), NoofSeats numeric(5))

```
CREATE PROCEDURE sp_Insert_job(@title NVARCHAR(50), @description
NVARCHAR(100), @eligi NVARCHAR(50),@location NVARCHAR(25),@NoofSeats
INT) AS
BEGIN
INSERT INTO tbl_new_job VALUES(@title,@description,@eligi,@location,@NoofSeats)
END
```

```
CREATE PROCEDURE sp_Update_job(@id INT, @title NVARCHAR(50), @description
NVARCHAR(100), @eligi NVARCHAR(50),@location NVARCHAR(25),@NoofSeats
INT) AS
BEGIN
UPDATE tbl_new_job SET title= @title,description=@description,eligi= @eligi,location=
@location,NoofSeats= @NoofSeats where Jobid= @id
END
```

SOURCE CODE:

ADMIN.MASTER

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Admin.Master.cs"
Inherits="Job_Recruitment_System.SiteMaster" %>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
<head runat="server">
    <title></title>
    <link href="~/Styles/Site.css" rel="stylesheet" type="text/css" />
    <asp:ContentPlaceHolder ID="HeadContent" runat="server">
    </asp:ContentPlaceHolder>
    <style type="text/css">
        .style1
        {
            width: 1083px;
        }
    </style>
</head>
```

```

<body style="background-image: url(Images/coltxtr.gif); border-top-style: ridge;
background-repeat: repeat-x; border-right-style: ridge; border-left-style: ridge;
border-bottom-style: ridge">
<form id="form1" runat="server">
<asp:ScriptManager ID="ScriptManager1" runat="server">
</asp:ScriptManager>
<asp:UpdatePanel ID="UpdatePanel1" runat="server">
</asp:UpdatePanel>
    <div>
<table border="0" cellpadding="0" cellspacing="0" style="width: 100%; height:
608px;background-image: url(Images/coltxtr.gif); " >
<tr>
<td align="center" colspan="3" >
<asp:Image ID="Image2" runat="server" ImageUrl="~/Images/header2.jpg" />
</td>
</tr>
<tr>
<td align="left" colspan="3" >
<table>
<tr>
<td align="left" style="border-top-style: ridge; background-repeat: repeat-x; border-
right-style: ridge; border-left-style: ridge; border-bottom-style: ridge"
class="style1">
<table>
<tr>
<td>
<asp:Menu ID="Menu1" runat="server" BackColor="#FFBBD6"
DynamicHorizontalOffset="2" Font-Bold="True" Font-Names="Times New Roman" Font-
Size="Medium" ForeColor="#990000" StaticSubMenuIndent="10px">
<DynamicHoverStyle BackColor="#990000" ForeColor="White" />
<DynamicMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
<DynamicMenuStyle BackColor="#FFBBD6" />
<DynamicSelectedStyle BackColor="#FFCC66" />
<Items>
<asp:MenuItem Text="Post a Job" Value="Post a Job" NavigateUrl="~/PostJob.aspx">
</asp:MenuItem>
</Items>
<StaticHoverStyle BackColor="#990000" ForeColor="White" />
<StaticMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
<StaticSelectedStyle BackColor="#FFCC66" />
</asp:Menu>
</td>
<td>
<asp:Menu ID="Menu3" runat="server" BackColor="#FFBBD6"
DynamicHorizontalOffset="2" Font-Bold="True" Font-Names="Times New Roman"
Font-Size="Medium" ForeColor="#990000" StaticSubMenuIndent="10px"
PathSeparator="|">
<DynamicHoverStyle BackColor="#990000" ForeColor="White" />
<DynamicMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
<DynamicMenuStyle BackColor="#FFBBD6" />
<DynamicSelectedStyle BackColor="#FFCC66" />
<Items>
<asp:MenuItem Text="Edit Job" Value="Edit Job" NavigateUrl="~/EditJob.aspx">
</asp:MenuItem>
</Items>
<StaticHoverStyle BackColor="#990000" ForeColor="White" />
<StaticMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
<StaticSelectedStyle BackColor="#FFCC66" />
<StaticItemTemplate>
<%# Eval("Text") %>
</StaticItemTemplate>
</asp:Menu>

```

```

</td>
<td>
<asp:Menu ID="Menu2" runat="server" BackColor="#FFFBD6"
DynamicHorizontalOffset="2" Font-Bold="True" Font-Names="Times New Roman"
Font-Size="Medium" ForeColor="#990000" StaticSubMenuIndent="10px">
<DynamicHoverStyle BackColor="#990000" ForeColor="White" />
<DynamicMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
<DynamicMenuStyle BackColor="#FFFBD6" />
<DynamicSelectedStyle BackColor="#FFCC66" />
<Items>
<asp:MenuItem Text="View Jobs" Value="View Jobs" NavigateUrl="~/AdminViewJob.aspx">
</asp:MenuItem>
</Items>
<StaticHoverStyle BackColor="#990000" ForeColor="White" />
<StaticMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
<StaticSelectedStyle BackColor="#FFCC66" />
<StaticItemTemplate>
<%# Eval("Text") %>
</StaticItemTemplate>
</asp:Menu>
</td>
</tr>
</table>
</td>
<td width="450" style="border-top-style: ridge; border-right-style: ridge; border-
left-style: ridge; border-bottom-style: ridge">
<asp:Label ID="lblUName" runat="server" Text="User Name : " Font-Bold="True"
Font-Names="Times New Roman" Font-Size="Medium"></asp:Label>
<asp:Label ID="LblUsername" runat="server" Font-Bold="True"
ForeColor="#003399" Font-Names="Times New Roman" Font-Size="Medium" ></asp:Label>
</td>
<td width="100" style="border-top-style: ridge; border-right-style: ridge; border-
left-style: ridge; border-bottom-style: ridge" >
<asp:LinkButton ID="lnkbtnLogOut" runat="server" CausesValidation="False"
OnClick="lnkbtnLogOut_Click" Font-Bold="True" Font-Names="Times New Roman"
Font-Size="Medium" Text="LogOut"></asp:LinkButton>
</td>
</tr>
</table>
</td>
</tr>
<tr>
<td style="width: 148px; height: 267px; border-top-style: groove; border-right-style:
groove; border-left-style: groove; border-bottom-style: groove; background-image:
url(Images/8.jpg);" valign="top">
</td>
<td colspan="2" style="width:800px; height: 600px;" align="center" valign="top">
<asp:contentplaceholder id="ContentPlaceHolder1" runat="server" >
</asp:contentplaceholder>
</td>
</tr>
<tr><td colspan="4" align="center">
<font size = "1" >
Copyright © Adhiparasakthi College of Arts and Science .,
</font>
</td></tr>
</table>
</div>
</form>
</body>
</html>

```

ADMIN.MASTER.CS

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace Job_Recruitment_System
{
    public partial class SiteMaster : System.Web.UI.MasterPage
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Convert.ToString(Session["UserName"])!= "Admin")
            {
                Response.Redirect("Session Expired.aspx");
            }
            LblUsername.Text = Convert.ToString(Session["Username"]);
        }

        protected void lnkbtnLogOut_Click(object sender, EventArgs e)
        {
            Session.Clear();
            Response.Redirect("login.aspx");
        }
    }
}
```

JOBUSER.MASTER

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Jobuser.master.cs"
Inherits="Job_Recruitment_System.Jobuser" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <asp:ContentPlaceHolder ID="head" runat="server">
    </asp:ContentPlaceHolder>
    <style type="text/css">
        .style1
        {
            width: 1083px;
        }
    </style>
</head>
<body style="background-image: url(Images/coltxtr.gif); border-top-style: ridge;
background-repeat: repeat-x; border-right-style: ridge; border-left-style: ridge;
border-bottom-style: ridge">
    <form id="form1" runat="server">
    <asp:ScriptManager ID="ScriptManager1" runat="server">
    </asp:ScriptManager>
    <asp:UpdatePanel ID="UpdatePanel1" runat="server">
    </asp:UpdatePanel>
    <div>
    <table border="0" cellpadding="0" cellspacing="0" style="width: 100%; height:
608px;background-image: url('Images/coltxtr.gif'); " >
```

```

        <tr>
        <td align="center" colspan="3" >
        <asp:Image ID="Image2" runat="server" ImageUrl="~/Images/header2.jpg" />
        </td>
        </tr>
        <tr>
        <td align="left" colspan="3" >
        <table>
        <tr>
        <td align="left" style="border-top-style: ridge; background-repeat: repeat-x; border-
        right-style: ridge; border-left-style: ridge; border-bottom-style: ridge"
        class="style1">
        <table>
        <tr>
        <td>
        </td>
        </tr>
        <tr>
        <td>
        <asp:Menu ID="Menu2" runat="server" BackColor="#FFBBD6" DynamicHorizontalOffset="2"
        Font-Bold="True" Font-Names="Times New Roman" Font-Size="Medium" ForeColor="#990000"
        StaticSubMenuIndent="10px"> <DynamicHoverStyle BackColor="#990000" ForeColor="White"
        />
        <DynamicMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
        <DynamicMenuStyle BackColor="#FFBBD6" />
        <DynamicSelectedStyle BackColor="#FFCC66" />
        <Items>
        <asp:MenuItem Text="View Jobs" Value="View Jobs" NavigateUrl="~/JobViewUser.aspx">
        </asp:MenuItem>
        </Items>
        <StaticHoverStyle BackColor="#990000" ForeColor="White" />
        <StaticMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
        <StaticSelectedStyle BackColor="#FFCC66" />
        <StaticItemTemplate>
        <%# Eval("Text") %>
        </StaticItemTemplate>
        </asp:Menu>
        </td>
        </tr>
        </table>
        </td>
        <td width="450" style="border-top-style: ridge; border-right-style: ridge; border-
        left-style: ridge; border-bottom-style: ridge">
        <asp:Label ID="lblUName" runat="server" Text="User Name : " Font-Bold="True">
        </asp:Label>
        <asp:Label ID="lblUsername" runat="server" Font-Bold="True" ForeColor="#000099" Font-
        Names="Times New Roman" Font-Size="Medium" ></asp:Label>
        </td>
        <td width="100" style="border-top-style: ridge; border-right-style: ridge; border-
        left-style: ridge; border-bottom-style: ridge">
        <asp:LinkButton ID="lnkbtnLogOut" runat="server" CausesValidation="False"
        OnClick="lnkbtnLogOut_Click" Font-Bold="True" Font-Names="Times New Roman">Log
        Out</asp:LinkButton>
        </td>
        </tr>
        </table>
        </td>
        </tr>
        <tr>
        <td style="width: 148px; height: 267px; border-top-style: groove; border-right-style:
        groove; border-left-style: groove; border-bottom-style: groove; background-image:
        url(Images/8.jpg);" valign="top" >
        </td>
        <td colspan="2" style="width:800px; height: 600px;" align="center" valign="top">

```

```

<asp:contentplaceholder id="ContentPlaceHolder1" runat="server" >
</asp:contentplaceholder>
</td>
</tr>
<tr><td colspan="4" align="center">
<font size = "1" >
Copyright © Adhiparasakthi College of Arts and Science .,
</font>
</td></tr>
</table>
</div>
</form>
</body>
</html>

```

JOBUSER.MASTER.CS

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace Job_Recruitment_System
{
    public partial class Jobuser : System.Web.UI.MasterPage
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Convert.ToString(Session["UserName"])!="User")
            {
                Response.Redirect("Session Expired.aspx");
            }
            lblUsername.Text = Convert.ToString(Session["Username"]);
        }

        protected void lnkbtnLogOut_Click(object sender, EventArgs e)
        {
            Session.Clear();
            Response.Redirect("login.aspx");
        }
    }
}

```

LOGIN.ASPX

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Login.aspx.cs"
Inherits="Job_Recruitment_System.Login" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .style2
        {
            width: 149px;

```

```

        }
        .style3
        {
            width: 149px;
            height: 46px;
        }
    </style>
</head>
<body background="Images/coltxtr.gif">
    <form id="form1" runat="server">
        <table style="table-layout: auto; width: 100%; padding: 10px">
            <tr>
                <td>
                    <asp:Image ID="Image1" runat="server" ImageUrl="~/Images/header2.jpg"
                        Width="1543px" />
                </td></tr></table>

            <table style="table-layout: auto; width: 100%; padding: 10px; height: 607px;">
                <tr style="height: 250px">
                    <td>
                        <table style="border: thick double #808000; height: 153px; width: 453px"
                            title="Login" align="center">
                            <tr>
                                <td class="style2" >
                                    <asp:Label ID="Label1" runat="server" Text="Username" Font-Bold="True"
                                        ForeColor="#000099"></asp:Label>
                                </td>
                                <td>
                                    <asp:TextBox ID="txtUsername" runat="server" Height="50px"
                                        Width="275px"></asp:TextBox>
                                </td>
                            </tr>
                            <tr>
                                <td class="style2">
                                    <asp:Label ID="Label2" runat="server" Text="Password" Font-Bold="True"
                                        ForeColor="#000099"></asp:Label>
                                </td>
                                <td>
                                    <asp:TextBox ID="txtPassword" runat="server" Height="50px" Width="275px"
                                        TextMode="Password"></asp:TextBox>
                                </td>
                            </tr>
                            <tr>
                                <td align="right" class="style3" colspan="2">
                                    <asp:Button ID="btnLogin" runat="server" Text="Login"
                                        onclick="btnLogin_Click" BackColor="#99CCFF" Height="50px" Width="75px" />
                                </td>
                            </tr>
                        </table>
                    </td>
                </tr>
            </table>
        </form>
    </body>
</html>

```

LOGIN.ASPX.CS

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

```

```

using System.Web.UI;
using System.Web.UI.WebControls;

namespace Job_Recruitment_System
{
    public partial class Login : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            txtUsername.Focus();
            if (!IsPostBack)
            {
                Session.Clear();
            }
        }

        protected void btnLogin_Click(object sender, EventArgs e)
        {
            if (txtUsername.Text == "Admin" && txtPassword.Text == "Admin")
            {
                Session["Username"] = "Admin";
                Response.Redirect("PostJob.aspx");
            }
            else if (txtUsername.Text == "User" && txtPassword.Text == "User")
            {
                Session["Username"] = "User";
                Response.Redirect("JobViewUser.aspx");
            }
        }
    }
}

```

POSTJOB.ASPX

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Admin.Master" AutoEventWireup="true"
CodeBehind="PostJob.aspx.cs" Inherits="Job_Recruitment_System.PostJob" %>
<asp:Content ID="Content1" ContentPlaceHolderID="HeadContent" runat="server">
    <style type="text/css">
        .style2
        {
            height: 38px;
        }
    </style>
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Names="Algerian" Font-
Size="Larger" ForeColor="#0033CC" Text="Post a Job"></asp:Label>
    <br />
    <table>
    <tr>
    <td>
    <table style="height: 372px; width: 405px">
    <tr>
    <td align="left" class="style2">
<asp:Label ID="Label3" runat="server" Text="Job Title" Font-Bold="True"
Font-Size="Medium"></asp:Label>
    </td>
    <td class="style2">
    <asp:TextBox ID="txt_Title" runat="server"></asp:TextBox><br />

```

```

<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
ErrorMessage="Enter the Job Title" Font-Bold="True" ForeColor="#FF9900"
ControlToValidate="txt_Title"></asp:RequiredFieldValidator>
</td></tr>
<tr>
<td align="left">
<asp:Label ID="Label4" runat="server" Text="Job Description" Font-Bold="True"
Font-Size="Medium"></asp:Label>
</td>
<td>
<asp:TextBox ID="txt_Desc" runat="server"></asp:TextBox>
<br />
<asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
ErrorMessage="Enter the Job Description" Font-Bold="True" ForeColor="#FF9900"
ControlToValidate="txt_Desc"></asp:RequiredFieldValidator>
</td></tr>
<tr>
<td align="left"> <asp:Label ID="Label5" runat="server"
Text="Eligibility" Font-Bold="True" Font-Size="Medium"></asp:Label>
</td>
<td>
<asp:TextBox ID="txt_eligi" runat="server"></asp:TextBox><br />
<asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"
ErrorMessage="Enter the Eligibility" Font-Bold="True" ForeColor="#FF9900"
ControlToValidate="txt_eligi"></asp:RequiredFieldValidator>
</td></tr>
<tr>
<td align="left">
<asp:Label ID="Label6" runat="server" Text="Job Location" Font-Bold="True"
Font-Size="Medium"></asp:Label>
</td>
<td>
<asp:TextBox ID="txt_loc" runat="server"></asp:TextBox><br />
<asp:RequiredFieldValidator ID="RequiredFieldValidator4" runat="server"
ErrorMessage="Enter the Job Location" Font-Bold="True" ForeColor="#FF9900"
ControlToValidate="txt_loc"></asp:RequiredFieldValidator>
</td></tr>
<tr>
<td align="left">
<asp:Label ID="Label7" runat="server" Text="No of Seats Vacancy" Font-Bold="True"
Font-Size="Medium"></asp:Label>
</td>
<td>
<asp:TextBox ID="txt_seats" runat="server"></asp:TextBox><br />
<asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server"
ErrorMessage="Enter the Total No of Seats" Font-Bold="True" ForeColor="#FF9900"
ControlToValidate="txt_seats"></asp:RequiredFieldValidator>
</td></tr>
<tr>
<td align="center" colspan="2">
<asp:Button ID="btn_insert" runat="server" Text="Insert" BackColor="#CCFFFF"
onclick="btn_insert_Click" />
<asp:Button ID="btn_clear" runat="server" Text="Clear" BackColor="#CCFFFF"
onclick="btn_clear_Click" CausesValidation="False" /><br />
<asp:Label ID="lblResult" runat="server" Font-Bold="True" Font-Names="Times New
Roman"></asp:Label>
</td>
</tr>
</table>
</td>
</tr>
</table>
</asp:Content>

```

POSTJOB.ASPX.CS

```
using System;
using System.Data;
using System.Linq;
using System.Web;
using System.Drawing;
using System.Web.UI;
using System.Data.Sql;
using System.Data.SqlClient;
using System.Collections.Generic;
using System.Web.UI.WebControls;

namespace Job_Recruitment_System
{
    public partial class PostJob : System.Web.UI.Page
    {
        SqlConnection con;
        SqlCommand cmd;
        protected void Page_Load(object sender, EventArgs e)
        {
            con = new SqlConnection("Data Source=laptop-cipfhhuq\\sqlexpress;Initial
Catalog=LabExercise;Integrated Security=True;Pooling=False");

            try
            {
                con.Open();
            }
            catch (Exception ex)
            {
                ClientScript.RegisterStartupScript(this.GetType(), "UpdateMessage",
"<script> alert('" + ex.Message.ToString() + "') </script>");
            }
        }
        protected void btn_insert_Click(object sender, EventArgs e)
        {
            string query;
            int result;
            try {
                query = "sp_Insert_job";
                cmd = new SqlCommand(query, con);
                cmd.CommandType = CommandType.StoredProcedure;
                cmd.Parameters.AddWithValue("@title",txt_Title.Text );
                cmd.Parameters.AddWithValue("@description", txt_Desc.Text);
                cmd.Parameters.AddWithValue("@eligi", txt_eligi.Text);
                cmd.Parameters.AddWithValue("location", txt_loc.Text);
                cmd.Parameters.AddWithValue("@NoofSeats", txt_seats.Text);
                if (con.State == ConnectionState.Closed)
                {
                    con.Open();
                }
                result= cmd.ExecuteNonQuery();
                ClientScript.RegisterStartupScript(this.GetType(), "UpdateMessage",
"<script> alert('" + result.ToString() + "' rows Inserted) </script>");
                lblResult.Text = result.ToString() + " Rows Inserted Successfully";
                lblResult.ForeColor = Color.Blue ;
                Clear();
            }
            catch(Exception ex)
            {
                ClientScript.RegisterStartupScript(this.GetType(), "UpdateMessage",
"<script> alert('" + ex.Message.ToString() + "') </script>");
            }
        }
    }
}
```



```

</td></tr>
<tr>
<td align="left" class="style4">
    <asp:Label ID="Label3" runat="server" Text="Job Title" Font-Bold="True"
        Font-Size="Medium"></asp:Label>
</td>
<td class="style2">
    <asp:TextBox ID="txtJobTitle" runat="server" Width="325px"></asp:TextBox>
</td></tr>
<tr>
<td align="left" class="style4">
    <asp:Label ID="Label4" runat="server" Text="Job Description" Font-Bold="True"
        Font-Size="Medium"></asp:Label>
</td>
<td align="left" class="style4">
    <asp:TextBox ID="txt_desc" runat="server" Width="325px" Height="104px"
        TextMode="Multiline"></asp:TextBox>
</td></tr>
<tr>
<td align="left" class="style4">
    <asp:Label ID="Label5" runat="server" Text="Eligibility" Font-Bold="True"
        Font-Size="Medium"></asp:Label>
</td>
<td>
    <asp:TextBox ID="txt_eligi" runat="server" Width="325px"></asp:TextBox>
</td></tr>
<tr>
<td align="left" class="style4">
    <asp:Label ID="Label6" runat="server" Text="Job Location" Font-Bold="True"
        Font-Size="Medium"></asp:Label>
</td>
<td>
    <asp:TextBox ID="txt_loc" runat="server" Width="325px"></asp:TextBox>
</td></tr>
<tr>
<td align="left" class="style4">
    <asp:Label ID="Label7" runat="server" Text="No of Seats Vacancy" Font-
Bold="True"
        Font-Size="Medium"></asp:Label>
</td>
<td>
    <asp:TextBox ID="txt_seats" runat="server" Width="325px"></asp:TextBox>
</td></tr>
<tr>
<td align="center" colspan="2">
    <asp:Button ID="btn_update" runat="server" Text="Update" BackColor="#CCFFFF"
        onclick="btn_update_Click" />
    <asp:Button ID="btn_clear" runat="server" Text="Clear" BackColor="#CCFFFF"
        onclick="btn_clear_Click" />
    <br />
    <asp:Label ID="lblResult" runat="server" Font-Bold="True"
        Font-Names="Times New Roman" Font-Size="Medium"></asp:Label>
</td>
</tr>
</table>
</td>
</tr>
</table>
</asp:Content>

```

[EDITJOB.ASPX.CS](#)

```

using System;
using System.Web;
using System.Data;
using System.Linq;
using System.Web.UI;
using System.Data.Sql;
using System.Drawing;
using System.Data.SqlClient;
using System.Web.UI.WebControls;
using System.Collections.Generic;

namespace Job_Recruitment_System
{
    public partial class EditJob : System.Web.UI.Page
    {
        DataSet ds;
        SqlCommand cmd;
        SqlConnection con;
        SqlDataAdapter sda;
        SqlDataReader sdr;
        public void Load_Jobs()
        {
            sda = new SqlDataAdapter("Select Jobid,CONVERT(varchar(50),jobid)+' - ' +
title as title from tbl_new_job", con);
            ds = new DataSet();
            sda.Fill(ds);
            ddlJobid.DataSource = ds;
            ddlJobid.DataTextField = "title";
            ddlJobid.DataValueField = "jobid";
            ddlJobid.DataBind();
            ddlJobid.Items.Insert(0, "Select Job");
            ddlJobid.Items[0].Value = "0";
        }
        protected void Page_Load(object sender, EventArgs e)
        {
            try
            {
                con = new SqlConnection("Data Source=laptop-
cipfhhuq\\sqlexpress;Initial Catalog=LabExercise;Integrated
Security=True;Pooling=False");
                con.Open();
                if (!Page.IsPostBack)
                {
                    Load_Jobs();
                }
            }
            catch (Exception ex)
            {
                ClientScript.RegisterStartupScript(this.GetType(), "UpdateMessage",
"<script> alert('" + ex.Message.ToString() + "') </script>");
            }
        }

        protected void ddlJobid_SelectedIndexChanged(object sender, EventArgs e)
        {
            if (ddlJobid.SelectedIndex > 0)
            {
                string query = "Select * from tbl_new_job where jobid='" +
ddlJobid.SelectedValue.ToString() + "'";
                if (con.State == ConnectionState.Closed)

```

```

        {
            con.Open();
        }
        cmd = new SqlCommand(query, con);
        sdr = cmd.ExecuteReader();

        if (sdr.HasRows == true)
        {
            while (sdr.Read())
            {
                txtJobTitle.Text = Convert.ToString(sdr.GetValue(1));
                txt_desc.Text = Convert.ToString(sdr.GetValue(2));
                txt_eligi.Text = Convert.ToString(sdr.GetValue(3));
                txt_loc.Text = Convert.ToString(sdr.GetValue(4));
                txt_seats.Text = Convert.ToString(sdr.GetValue(5));
            }
        }
    }

    protected void btn_clear_Click(object sender, EventArgs e)
    {
        Clear();
        lblResult.Text = String.Empty;
    }
    public void Clear()
    {
        ddlJobid.SelectedIndex = 0;
        txtJobTitle.Text = String.Empty;
        txt_desc.Text = String.Empty;
        txt_eligi.Text = String.Empty;
        txt_loc.Text = String.Empty;
        txt_seats.Text = String.Empty;
    }

    protected void btn_update_Click(object sender, EventArgs e)
    {
        string query;
        int result;
        try
        {
            query = "sp_Update_job";
            cmd = new SqlCommand(query, con);
            cmd.CommandType = CommandType.StoredProcedure;
            cmd.Parameters.AddWithValue("@id", ddlJobid.SelectedValue.ToString());
            cmd.Parameters.AddWithValue("@title", txtJobTitle.Text);
            cmd.Parameters.AddWithValue("@description", txt_desc.Text);
            cmd.Parameters.AddWithValue("@eligi", txt_eligi.Text);
            cmd.Parameters.AddWithValue("location", txt_loc.Text);
            cmd.Parameters.AddWithValue("@NoofSeats", txt_seats.Text);
            if (con.State == ConnectionState.Closed)
            {
                con.Open();
            }
            result = cmd.ExecuteNonQuery();
            ClientScript.RegisterStartupScript(this.GetType(), "UpdateMessage",
"<script> alert('" + result.ToString() + " ' rows Inserted) </script>");
            lblResult.Text = result.ToString() + " Rows Updated Successfully";
            lblResult.ForeColor = Color.Blue;
            Clear();
        }
    }

```

```

        catch (Exception ex)
        {
            ClientScript.RegisterStartupScript(this.GetType(), "UpdateMessage",
"<script> alert(' + ex.Message.ToString() + ') </script>");
            lblResult.Text = ex.Message.ToString();
            lblResult.ForeColor = Color.Red;
        }
    }
}

```

ADMINVIEWJOB.ASPX

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Admin.Master" AutoEventWireup="true"
CodeBehind="AdminViewJob.aspx.cs" Inherits="Job_Recruitment_System.ViewJob" %>
<asp:Content ID="Content1" ContentPlaceHolderID="HeadContent" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Names="Algerian"
        Font-Size="Larger" ForeColor="#0033CC" Text="View Jobs"></asp:Label>
    <br />
    <table>
    <tr>
        <td>
            <table style="height: 372px; width: 405px">
            <tr>
            <td>
                <asp:GridView ID="gdvJobList" runat="server" CellPadding="4"
                    ForeColor="#333333" Height="319px" Width="738px" BorderStyle="Double"
                    Font-Bold="True" Font-Names="Times New Roman" Font-Size="Medium">
                    <AlternatingRowStyle BackColor="White" />
                    <EditRowStyle BackColor="#2461BF" />
                    <FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
                    <HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
                    <PagerStyle BackColor="#2461BF" ForeColor="White" HorizontalAlign="Center" />
                    <RowStyle BackColor="#EFF3FB" />
                    <SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True" ForeColor="#333333" />
                    <SortedAscendingCellStyle BackColor="#F5F7FB" />
                    <SortedAscendingHeaderStyle BackColor="#6D95E1" />
                    <SortedDescendingCellStyle BackColor="#E9EBEF" />
                    <SortedDescendingHeaderStyle BackColor="#4870BE" />
                </asp:GridView>
            </td>
            </tr>
            </table>
        </td>
    </tr>
    </table>
</asp:Content>

```

ADMINVIEWJOB.ASPX.CS

```

using System;
using System.Web;
using System.Data;
using System.Linq;
using System.Web.UI;
using System.Data.Sql;
using System.Data.SqlClient;
using System.Web.UI.WebControls;
using System.Collections.Generic;

```

```

namespace Job_Recruitment_System
{
    public partial class ViewJob : System.Web.UI.Page
    {
        DataSet ds;
        SqlConnection con;
        SqlDataAdapter sda;
        protected void Page_Load(object sender, EventArgs e)
        {
            con = new SqlConnection("Data Source=laptop-cipfhhuq\\sqlexpress;Initial
Catalog=LabExercise;Integrated Security=True;Pooling=False");
            try
            {
                con.Open();
                sda = new SqlDataAdapter("Select Jobid as 'Job ID', title as 'Job
Title',description as 'Job Description', eligi as 'Eligiblity', Location, Noofseats as
'No of Seats' from tbl_new_job ", con);
                ds = new DataSet();
                sda.Fill(ds);
                gdvJobList.DataSource = ds.Tables[0];
                gdvJobList.DataMember = ds.Tables[0].TableName;
                gdvJobList.DataBind();
            }
            catch (Exception ex)
            {
                ClientScript.RegisterStartupScript(this.GetType(), "UpdateMessage",
"<script> alert('" + ex.Message.ToString() + "') </script>");
            }
        }
    }
}

```

JOBVIEWUSER.ASPX

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Jobuser.Master"
AutoEventWireup="true" CodeBehind="JobViewUser.aspx.cs"
Inherits="Job_Recruitment_System.JobViewUser" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server"> </asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Names="Algerian"
        Font-Size="Larger" ForeColor="#0033CC" Text="View Jobs"></asp:Label>
    <br />
    <table> <tr> <td> <table style="height: 372px; width: 405px">
    <tr> <td>
    <asp:GridView ID="gdvView_jobs" runat="server" CellPadding="4" ForeColor="#333333"
Height="319px" Width="738px" BorderColor="#003399" BorderStyle="Double">
    <AlternatingRowStyle BackColor="White" />
    <EditRowStyle BackColor="#2461BF" />
    <FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
    <HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
    <PagerStyle BackColor="#2461BF" ForeColor="White" HorizontalAlign="Center" />
    <RowStyle BackColor="#EFF3FB" />
    <SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True" ForeColor="#333333" />
    <SortedAscendingCellStyle BackColor="#F5F7FB" />
    <SortedAscendingHeaderStyle BackColor="#6D95E1" />
    <SortedDescendingCellStyle BackColor="#E9EBEF" />
    <SortedDescendingHeaderStyle BackColor="#4870BE" />
    </asp:GridView>
    </td>
    </tr>
    </table>
    </td>
    </tr>
    </table>

```

</asp:Content>

JOBVIEWUSER.ASPX.CS

```
using System;
using System.Web;
using System.Data;
using System.Linq;
using System.Web.UI;
using System.Data.Sql;
using System.Data.SqlClient;
using System.Web.UI.WebControls;
using System.Collections.Generic;

namespace Job_Recruitment_System
{
    public partial class JobViewUser : System.Web.UI.Page
    {
        DataSet ds;
        SqlConnection con;
        SqlDataAdapter sda;
        protected void Page_Load(object sender, EventArgs e)
        {
            con = new SqlConnection("Data Source=laptop-cipfhhuq\\sqlexpress;Initial
Catalog=LabExercise;Integrated Security=True;Pooling=False");

            try
            {
                con.Open();
                sda = new SqlDataAdapter("Select Jobid as 'Job ID', title as 'Job
Title',description as 'Job Description', eligi as 'Eligiblity', Location, Noofseats as
'No of Seats' from tbl_new_job ", con);
                ds = new DataSet();
                sda.Fill(ds);
                gdvView_jobs.DataSource = ds.Tables[0];
                gdvView_jobs.DataMember = ds.Tables[0].TableName;
                gdvView_jobs.DataBind();
            }
            catch (Exception ex)
            {
                ClientScript.RegisterStartupScript(this.GetType(), "UpdateMessage",
"<script> alert('" + ex.Message.ToString() + "') </script>");
            }
        }
    }
}
```

SESSION EXPIRED.ASPX

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Session Expired.aspx.cs"
Inherits="Session_Expired" %>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml" >
<head runat="server">
    <title>Session Expired</title>
</head>
<body>
    <form id="form1" runat="server">
```

```

        <table class="table" width="100%">
            <tr>
                <td align="center" class="homeheader" style="height: 20px">
                    <b> Sesssion Expired !!! </b>
                </td>
            </tr>
            <tr>
                <td align="center">
                </td>
            </tr>
            <tr>
                <td align="center">
                    <b>
<asp:LinkButton ID="lnkbtnLogin" runat="server" Font-Bold="True" Font-Size="Larger"
OnClick="lnkbtnLogin_Click">Login</asp:LinkButton>
                    </b>
                </td>
            </tr>
        </table>
    </form>
</body>
</html>

```

SESSION EXPIRED.ASPX.CS

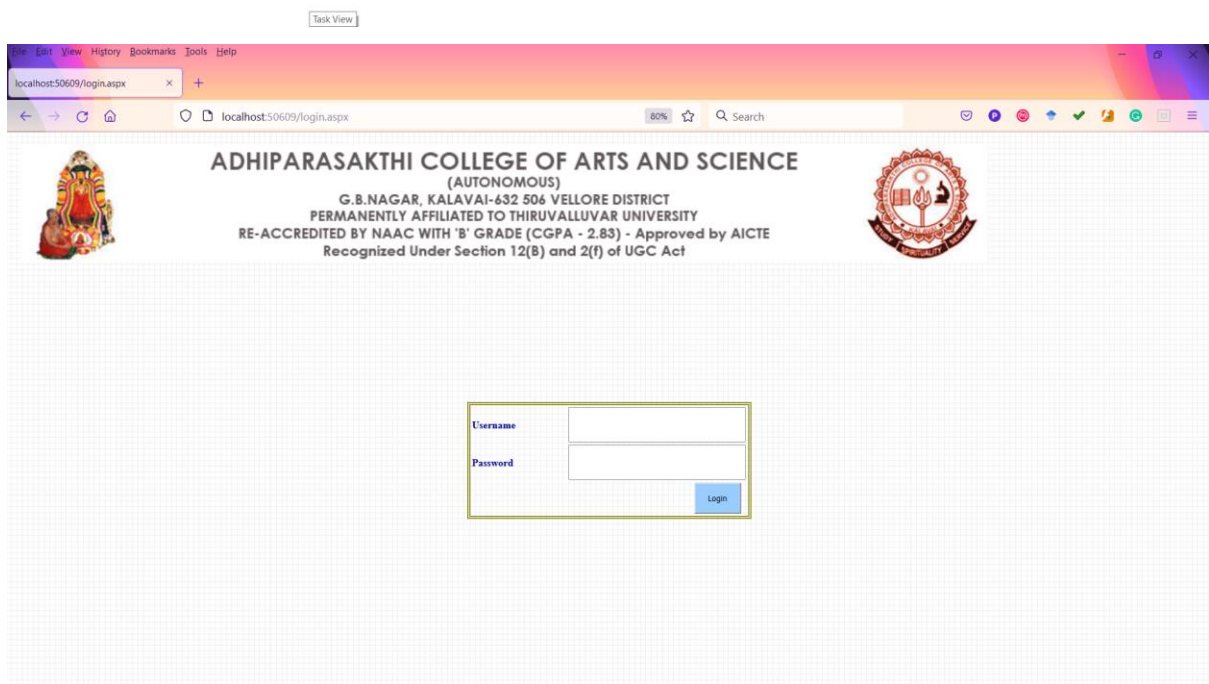
```

using System;
using System.Data;
using System.Configuration;
using System.Collections;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Web.UI.HtmlControls;

public partial class Session_Expired : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        Session.Clear();
    }
    protected void lnkbtnLogin_Click(object sender, EventArgs e)
    {
        Response.Redirect("login.aspx");
    }
}

```

OUTPUT:



File Edit View History Bookmarks Tools Help

localhost:50609/PostJob.aspx

localhost:50609/PostJob.aspx 80% Search

ADHIPARASAKTHI COLLEGE OF ARTS AND SCIENCE
(AUTONOMOUS)
G.8.NAGAR, KALAVAI-632 504 VELLORE DISTRICT
PERMANENTLY AFFILIATED TO THIRUVALLUVAR UNIVERSITY
RE-ACCREDITED BY NAAC WITH 'B' GRADE (CGPA - 2.83) - Approved by AICTE
Recognized Under Section 12(B) and 2(f) of UGC Act

Post a Job Edit Job View Jobs User Name : Admin LogOut

POST A JOB

Job Title

Job Description

Eligibility

Job Location

No of Seats Vacancy

Insert Clear

1 Rows Inserted Successfully

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File Edit View History Bookmarks Tools Help

localhost:50609/EditJob.aspx

localhost:50609/EditJob.aspx 80% Search

ADHIPARASAKTHI COLLEGE OF ARTS AND SCIENCE
(AUTONOMOUS)
G.8.NAGAR, KALAVAI-632 504 VELLORE DISTRICT
PERMANENTLY AFFILIATED TO THIRUVALLUVAR UNIVERSITY
RE-ACCREDITED BY NAAC WITH 'B' GRADE (CGPA - 2.83) - Approved by AICTE
Recognized Under Section 12(B) and 2(f) of UGC Act

Post a Job Edit Job View Jobs User Name : Admin LogOut

UPDATE A JOB

JobId

Job Title

Job Description

Eligibility

Job Location

No of Seats Vacancy

Update Clear

1 Rows Updated Successfully

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File Edit View History Bookmarks Tools Help

localhost:50609/AdminViewJob.aspx

localhost:50609/AdminViewJob.aspx

ADHIPARASAKTHI COLLEGE OF ARTS AND SCIENCE
(AUTONOMOUS)
G.8 NAGAR, KALAVAI-632 504 VELLORE DISTRICT
PERMANENTLY AFFILIATED TO THIRUVALLUVAR UNIVERSITY
RE-ACCREDITED BY NAAC WITH 'B' GRADE (CGPA - 2.83) - Approved by AICTE
Recognized Under Section 12(B) and 2(f) of UGC Act

Post a Job Edit Job View Jobs

User Name : Admin [LogOut](#)

VIEW JOBS

Job ID	Job Title	Job Description	Eligibility	Location	No of Seats
1	Software Developer	ASP.Net,C# Programmer Needed	3 years experience in Dot Net programming	Chennai	5
2	Web Designer	Ph.P, MySql Web Designer Needed	MCA, BE, B.Tech	Bangalore	6
3	App Developer	Android App Developer	BCA,BSc,MCA	Chennai	3
4	Programmer	Java Developer	Certification in Advanced Java	Hyderabad	10
5	Programmer	Java Developer, Android App Developer	MCA, Java Certification	Hyderabad	15
6	Data Analyst	Data Science / Business Analyst - Big Data Engineer	Python- Data Science- Machine Learning	Chennai	10
7	Programmer	C++ Developer	BCA,BSc,MCA	Hyderabad	2

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English (United States)
English (India) keyboard
To switch input methods, press Windows key+Space.

File Edit View History Bookmarks Tools Help

localhost:50609/JobViewUser.aspx

localhost:50609/JobViewUser.aspx

ADHIPARASAKTHI COLLEGE OF ARTS AND SCIENCE
(AUTONOMOUS)
G.8 NAGAR, KALAVAI-632 504 VELLORE DISTRICT
PERMANENTLY AFFILIATED TO THIRUVALLUVAR UNIVERSITY
RE-ACCREDITED BY NAAC WITH 'B' GRADE (CGPA - 2.83) - Approved by AICTE
Recognized Under Section 12(B) and 2(f) of UGC Act

View Jobs

User Name : User [Log Out](#)

VIEW JOBS

Job ID	Job Title	Job Description	Eligibility	Location	No of Seats
1	Software Developer	ASP.Net,C# Programmer Needed	3 years experience in Dot Net programming	Chennai	5
2	Web Designer	Ph.P, MySql Web Designer Needed	MCA, BE, B.Tech	Bangalore	6
3	App Developer	Android App Developer	BCA,BSc,MCA	Chennai	3
4	Programmer	Java Developer	Certification in Advanced Java	Hyderabad	10
5	Programmer	Java Developer, Android App Developer	MCA, Java Certification	Hyderabad	15
6	Data Analyst	Data Science / Business Analyst - Big Data Engineer	Python- Data Science- Machine Learning	Chennai	10
7	Programmer	C++ Developer	BCA,BSc,MCA	Hyderabad	2

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RESULT:

Thus, Job recruitment site has been implemented successfully.