```
make: DHRUVESH PAREKH
SAP-ID: 53003170057
Enter Four Numbers:
2
3
4
5
Products of numbers =120
```

# **Practical No.1**

# <u>1A.</u> Create an application that obtains four int values from the user and displays the product.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace ConsoleApplication1
  class Program
    static void Main(string[] args)
      Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      int[] num = new int[4];
      int pro = 1;
      Console.WriteLine("Enter 4 numbers:");
        for(int i=0;i<4;i++)
        {
            num[i]=Convert.ToInt32(Console.ReadLine());
            pro*=num[i];
      Console.WriteLine("product is:"+pro);
      Console.ReadKey();
   }
 }
```

## file:///C:/Users/admin/Desktop/muski/serious NAME: DHRUVESH PAREKH SAP-ID: 53003170057 Original String= Welcome to Programming First Index of 1=3 Last Index of m=19 Replace String= Welcowe to Prograwwing Upper Case= WELCOME TO PROGRAMMING Lower Case= welcome to programming Length of String=23 Removal from string= We Start with 'S' =False Ends with g' =True Using Trim=Welcome to Programming Using Trim End= Welcome to Programmin Using Trim Start= Welcome to Programming Join method=to-join-a-string Substring=rogramming PadLeft=\*\*\*\*\*\*\*\*\*\* Welcome to Programm: PadRight= Welcome to Programming\*\*\*\*\*\*\* Insert method= Welcom#e to Programming Using Split method Welcome to Programming

# 1B. Create an application to demonstrate string operations.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace StrOperation
  class StrOperation
    static void Main(string[] args)
      string lname, fname;
      Console.WriteLine("Enter First name:");
      lname = Console.ReadLine();
      Console.WriteLine("Enter Last name:");
      fname = Console.ReadLine();
      Console.WriteLine("trim: "+lname.Trim());
      Console.WriteLine("clone: "+fname.Clone());
      Console.WriteLine("trimend: "+lname.TrimEnd());
      Console.WriteLine("trimstart: "+lname.TrimStart());
      Console.WriteLine("padleft: "+fname.PadLeft(8,'*'));
      Console.WriteLine("padright: "+fname.PadRight(8,'#'));
      Console.WriteLine("insert: "+lname.Insert(2,"abc"));
      Console.WriteLine("remove: "+lname.Remove(1,1));
      Console.WriteLine("replace: "+lname.Replace("y","a"));
      Console.WriteLine("substring: "+fname.Substring(1,4));
      Console.WriteLine("toupper: "+fname.ToUpper());
      string[] s1={"hello","hie","bye"};
      string s3=string.Join("-",s1);
      Console.WriteLine(s3):
      Console.ReadKey();
    }
```

# file:///C:/Users/admin/Desktop/ NAME: DHRUVESH PAREKH SAP-ID: 53003170057 Enter Student ID: 53003170057 Enter Student Name: Dhruvesh Enter Student Course Name: BscIT Enter Date of Birth Enter day(1-31): Enter month(1-12): 10 Enter year : 1999 Enter Student ID:

<u>1C.</u> Create an application that receives the (Student Id, Student Name, Course Name, Date of Birth) information from a set of students. The application should also display the information of all the students once the data entered.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace StudInfo{
  class StudInfo{
    struct Student{
      public string studid, name, cname;
      public int day, month, year;
    static void Main(string[] args)
      Student[] st= new Student[3];
      int i:
      Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      for(i=0;i<2;i++)
      {
        Console.Write("Enter student ID:");
        st[i].studid=Console.ReadLine();
        Console.Write("Enter student Name:");
        st[i].name=Console.ReadLine();
        Console.Write("Enter course Name:");
        st[i].cname=Console.ReadLine();
        Console.Write("Enter date of birth\n Enter day(1-31):");
        st[i].day=Convert.ToInt32(Console.ReadLine());
        Console.Write("Enter month(1-12):");
        st[i].month=Convert.ToInt32(Console.ReadLine()):
        Console.Write("Enter year:");
        st[i].year=Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("\n\nStudent's List\n");
      for(i=0;i<2;i++)
        Console.WriteLine("\nStudent ID:"+st[i].studid);
        Console.WriteLine("\nStudent name:"+st[i].name);
Console.WriteLine("\nCourse name:"+st[i].cname);
        Console.WriteLine("\nDate of birth(dd-mm-yy):"+st[i].day+"-
"+st[i].month+"-"+st[i].year);
      Console.ReadKey();
```

```
NAME: DHRUVESH PAREKH
SAP-ID: 53003170057
Enter number to generate Fibonacci series
4
0 1 1 2
```

# 1D. Create an application to demonstrate following operations.

## i. Generate Fibonacci series.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace Fibo
  class Fibonacci
    static void Main(string[] args)
      Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      Console.WriteLine("Enter length");
      int n = Convert.ToInt32(Console.ReadLine());
      int t1 = 0;
      int t2 = 1;
      Console.WriteLine("Fibonacci series of given length is");
      Console.WriteLine(t1);
      Console.WriteLine(t2);
      for (int i = 2; i \le n; i++)
        int sum = t1 + t2;
        t1 = t2;
        t2 = sum;
        Console.WriteLine(sum);
      Console.ReadKey();
 }
```

```
In file:///c:/users/admin/documents/visual studio 2010/Projects/ConsoleApplication23/Con... - NAME: DHRUVESH PAREKH SAP-ID: 53003170057 Enter Number to check if it is prime or not 5 Number is Prime
```

# ii. Test for prime numbers

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace Prime
  class Prime
    static void Main(string[] args)
      Console. Write Line ("\#53003170057\#\n \#Dhruvesh Parekh\#\n");
      Console.WriteLine("Enter a number to check it is prime or not");
      int n, i;
      int flag = 0;
      n = Convert.ToInt32(Console.ReadLine());
      for (i = 2; i \le n / 2; i++)
        if (n \% i == 0)
           Console.WriteLine("not prime");
           flag = 1;
          break;
      if (flag == 0)
        Console.WriteLine("prime");
      Console.ReadKey();
 }
```

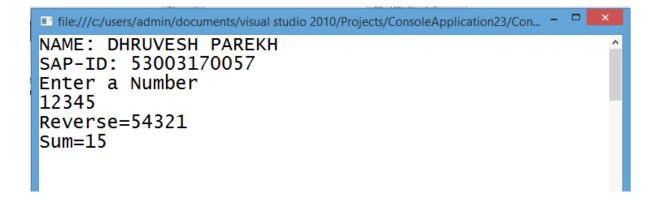
```
In file:///c:/users/admin/documents/visual studio 2010/Projects/ConsoleApplication23/Con... - In File:///c:/users/admin/documents/visual studio 2010/Projects/ConsoleApplication23/Con... - In File://c:/users/admin/documents/visual studio 2010/Projects/ConsoleApplication23/Con...
```

# iii. Test for vowels.

```
using System;
using System.Collections.Generic;
using System.Ling;
 using System.Text;
namespace Vowel
   class Vowel
     static void Main(string[] args)
       char ch;
       Console.WriteLine("#53003170057#\n#Dhruvesh Parekh#\n");
       Console.WriteLine("Enter the alphabet");
       ch = Convert.ToChar(Console.ReadLine());
       if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
         Console.WriteLine(ch + "is vowel");
       else
       {
         Console.WriteLine(ch + " is a consonant");
       Console.ReadKey();
}
```

In file:///c:/users/admin/documents/visual studio 2010/Projects/ConsoleApplication23/Con... - NAME: DHRUVESH PAREKH SAP-ID: 53003170057 Hello World To Programming

# iv. Use of foreach loop with arrays



# v. Reverse a number and find sum of digits of a number.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace ReverseNo
 class Program
   static void Main(string[] args)
     Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      Console.WriteLine("Enter a number to reverse");
     int Number = Convert.ToInt32(Console.ReadLine());
     int Reverse = 0, Sum=0;
     while (Number > 0)
        int remainder = Number % 10;
       Sum = Sum+remainder;
       Reverse = (Reverse * 10) + remainder;
        Number = Number / 10;
     Console.WriteLine("Reverse No. is {o}", Reverse);
      Console.WriteLine("Sum of the number is {o}", Sum);
      Console.ReadKey();
 }
```

# **Output:**

III file:///C:/Users/admin/Documents/Visua

NAME: DHRUVESH PAREKH SAP-ID: 53003170057

Enter Number for Factorial:5

Factorial of 5 is:120

### **Practical No.2**

# a. Create simple application to perform following operations i. Finding factorial Value

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text:
namespace Factorial{
  class Factorial{
      int fact(int n)
        if(n==0||n==1)
          return 1;
        else if(n<o)
          return -1;
        else
           return n*fact(n-1);
      static void Main(string[] args)
        Factorial p = new Factorial();
          int m,pr;
          Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
          Console.WriteLine("enter no");
          m=Convert.ToInt32(Console.ReadLine());
          pr=p.fact(m);
         if(pr==0||pr==1)
            Console.WriteLine("not negative");
          else if (pr < 0)
            Console.WriteLine("negative no");
          }
          else
            Console.WriteLine("factorial is " + pr);
        Console.ReadKey();
   }
```

# NAME: DHRUVESH PAREKH SAP-ID: 53003170057 Enter your choice: 1- US DOLLAR 2-EURO 3- YAN 4- POUNDS Enter:1 Enter Dollar Amount:45 Enter Dollar Value: 70 Dollar to Rupee Conversion:3150

# ii. Money Conversion

```
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace Currency Conv
  class Currency Conv
    static void Main(string[] args)
      int choice:
      Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      Console.WriteLine("Enter your choice:\n 1.Rupee to dollar\n 2. Rupee to
Euro\n 3.Rupee to pound");
      choice = Convert.ToInt32(Console.ReadLine());
      double rupee, dollar, euro, pound;
      switch (choice)
        case 1:
            Console.WriteLine("Enter rupee amount:");
            rupee=Convert.ToDouble(Console.ReadLine());
            dollar=rupee*0.015;
            Console.WriteLine("Dollar:"+dollar);
            break;
        case 2:
            Console.WriteLine("Enter rupee amount:");
            rupee=Convert.ToDouble(Console.ReadLine());
            euro=rupee*0.013;
            Console.WriteLine("Euro:"+euro);
            break;
        case 3:
            Console.WriteLine("Enter rupee amount:");
            rupee=Convert.ToDouble(Console.ReadLine());
            pound=rupee*0.012;
            Console.WriteLine("Pound:" + pound);
            break:
  Console.ReadKey();
```

```
III file:///C:/Users/admin/Documents/Visual Studio 2010/Proj
NAME: DHRUVESH PAREKH
SAP-ID: 53003170057
Enter the value of a
45
Enter the value of b
5
Enter the value of c
8
Roots are imaginary
```

```
static void Main(string[] args)
{
    Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
    QuadEqn qe = new QuadEqn();
    qe.quadratic();
    Console.ReadKey();
}
}
```

# iii. Quadratic Equation

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace Quad eqn {
  class QuadEqn {
    public void quadratic()
      int a, b, c, d;
      double x, y;
      Console.WriteLine("Enter the value of a:");
      a=Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter the value of b:");
      b = Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter the value of c:");
      c = Convert.ToInt32(Console.ReadLine());
      d = (b * b) - (4 * a * c);
      if (a == 0)
        Console.WriteLine("Not a Quadratic Equation");
      else if (d < o)
        d = -1 * d;
        Console.WriteLine("Roots are imaginary");
        x = -b / (2 * a);
        y = (Math.Sqrt(d) / (2 * a));
        Console.WriteLine(x + "+i" + y);
        Console.WriteLine(x + "-i" + y);
      else if (d == 0)
        Console.WriteLine("Roots are real and equal");
        Console.WriteLine("Roots are=" + (-b / (2 * a)));
      else
      {
        Console.WriteLine("Roots are real and distinct");
        Console.WriteLine("Roots are=" + ((-b + Math.Sqrt(d)) / (2 * a)), ((-b -
Math.Sqrt(d)) / (2 * a)));
      }
    }
```

```
make: DHRUVESH PAREKH
SAP-ID: 53003170057
Enter the temp:
56
Convert to:
1.Celcius:
2.Farenheit:
Enter:
1
Converted value=13.33333
```

# iv. Temperature Conversion

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace TempConvertor
  class Temprature
   public double cTof(double celsius)
      return (celsius *(9/5)) + 32;
    public double fToc(double farhenheit)
      return (farhenheit - 32) * (5 / 9);
  class Program
    static void Main(string[] args)
      Temprature t = new Temprature();
      Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      Console.WriteLine( "1. Celsius to Farhenheit\n 2.Farhenheit To Celsius");
      double val;
      int choice:
      choice = Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter value:");
      val = Convert.ToDouble(Console.ReadLine());
      switch (choice)
      {
          Console.WriteLine("Conversion is:" + t.cTof(val));
          break:
        case 2:
          Console.WriteLine("Conversion is:" + t.fToc(val));
          break;
      Console.ReadKey();
 }
```

```
file:///C:/Users/admin/Documents/Visual Studio 2010/
NAME: DHRUVESH PAREKH
SAP-ID: 53003170057
Enter two Integer Values:
18
49
Values are swapped
After Swapping m=49 and n=18
Enter two Float Values
```

# **2B.**Create simple application to demonstrate use of following concepts

# i. Function Overloading

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace Function Over {
  class Overloading {
    public void swap(ref int n, ref int m)
      int temp;
      temp = n;
      n = m;
      m = temp;
      Console.WriteLine("Values are swapped");
    public void swap(ref float p, ref float q)
      float temp;
      temp = p;
      p = q;
      q = temp;
      Console.WriteLine("Values are swapped");
  }
  class Program
    static void Main(string[] args)
      Overloading o = new Overloading();
      Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      Console.WriteLine("Enter two Integer Values: ");
      int m = Convert.ToInt32(Console.ReadLine());
      int n = Convert.ToInt32(Console.ReadLine());
      o.swap(ref m, ref n);
      Console.WriteLine("After Swapping m=\{0\} and n=\{1\}", m, n);
      Console.WriteLine("Enter two Float Values");
      float p = Convert.ToSingle(Console.ReadLine());
      float q = Convert.ToSingle(Console.ReadLine());
      o.swap(ref p, ref q);
      Console.WriteLine("After Swapping p={0} and q={1}", p, q);
      Console.ReadKey();
    }
 }
```

```
III file:///C:/Users/admin/Documents/Visual Studio 2010/Projects/
NAME: DHRUVESH PAREKH
SAP-ID: 53003170057
Enter details for Dinning Table:
Enter Material:
hawghs
Enter Price:
45
Enter Height of the Table in inches:
23
Enter Surface Area of the Table:
34
Enter Number of Chairs Required:
12
Material is hawghs
Price is Rs.45
Height of the Table is 23 inches
Surface Rea of the Table is 34 sq.cm
Number of Chairs: 12
```

# ii. Inheritance (all types)1. Single Inheritance and Multilevel Inheritance

```
using System;
using System.Collections.Generic;
using System.Ling:
using System.Text;
namespace MultilevelInh {
  class Furnitue {
    string material;
    float price:
    public void getData()
      Console.WriteLine("Enter material:");
      material = Console.ReadLine();
      Console.WriteLine("Enter price:");
      price = Convert.ToSingle(Console.ReadLine());
    public void setData()
      Console.WriteLine("Material is:" + material);
      Console.WriteLine("Price is:" + price);
  class Table:Furnitue
    float height:
    float surfaceArea;
    public void getData()
      base.getData();
      Console.WriteLine("Enter height:");
      height = Convert.ToSingle(Console.ReadLine());
      Console.WriteLine("Enter SurfaceArea:");
      surfaceArea = Convert.ToSingle(Console.ReadLine());
    public void setData()
      base.setData();
      Console.WriteLine("Height is:" + height);
      Console.WriteLine("surfaceArea is:" + surfaceArea);
    }
  class DinningTable:Table
    int noOfChairs:
    public void getData()
      base.getData();
```

```
Microsoft Visual Studio Debug Console
#53003170107#
#Rhitik Wadhvana#
Display of Manager class called.
Display of Programmer class called.
```

### 2. Hierarchical Inheritance

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace Hierarchical Inh
  class Employee
    public virtual void display()
      Console.WriteLine("Display of Employee class called.");
  class Programmer: Employee
    public void display()
      Console.WriteLine("Display of Programmer class called.");
  class Manager: Employee
   public void display()
      Console.WriteLine("Display of Manager class called.");
  class Program
    static void Main(string[] args)
      Manager m = new Manager();
      Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      m.display();
      Programmer p = new Programmer();
      p.display();
      Console.ReadKey();
 }
```

```
#53003170057#
#Dhruvesh Parekh#
Area of square is 12.25 sq. cm
Area of Rectangle is 19.25 sq. cm
```

# iii. Constructor overloading

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace Constructor_over
  class Area
    public Area(float s)
      Console.WriteLine("Area of Sqaure is "+s*s+" sq. cm.");
    public Area(float l,float b)
      Console.WriteLine("Area of Rectangle is " + 1 * b + " sq. cm.");
  class Program
    static void Main(string[] args)
      Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
      Area obj = new Area(2.5f);
      Area obj1 = \text{new Area}(2.5f, 5.5f);
      Console.ReadKey();
```

```
#53003170057#
#Dhruvesh Parekh#
name: Dhruvesh
Gross Sal: 1,50,000
```

```
private int S_ta;
  public int da
    get { return S_da; }
    set { S_da = value; }
  private int S_da;
  public int GrossSal()
    int gSal;
    gSal = hra + ta + da + BasicSal(15000);
    return gSal;
  public void dispSal()
    base.ShowData();
    Console.WriteLine("Gross Sal:" + GrossSal());
class Program
  static void Main(string[] args)
    Console.WriteLine("#53003170057#\n #Dhruvesh Parekh#\n");
    Salary s = new Salary("Rhitik", 10000);
    s.da = 20000;
    s.ta = 30000;
    s.dispSal();
    Console.ReadKey();
  }
}
```

### iv. Interfaces Code:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace Multiple_Inh {
  interface Gross
    int ta
      get;
      set;
    int da
      get;
      set;
    int GrossSal();
  class Employee
    string name;
    public Employee(string name)
      this.name = name;
    public int BasicSal(int basicSal)
      return basicSal;
    public void ShowData()
      Console.WriteLine("Name:" + name);
  class Salary: Employee, Gross
  {
    int hra;
    public Salary(string name, int hra) : base(name)
      this.hra = hra;
    public int ta
      get { return S_ta; }
      set { S_ta = value; }
```

```
#53003170057#

#Dhruvesh Parekh#

Yellow light signals to get ready

Green light signals to go

Red light signal to stop
```

Press any key to continue...

# **2**C. Create simple application to demonstrate use of following concepts.

# i. Using Delegates and events

```
CODE:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace TrafficDelegateExample{
public delegate void TrafficDel();
             class TrafficSignal
                    {
                    public static void Yellow()
                           Console.WriteLine("Yellow light signals to get ready");
                    public static void Green()
                           Console.WriteLine("Green light signals to go");
                    public static void Red()
                           Console.WriteLine("Red light signals to stop");
                    TrafficDel[] td = new TrafficDel[3];
                    //to initialize an array of delegate with the above methods
                    public void IdentifySignal()
                           td[o] = new TrafficDel(Yellow);
                           td[1] = new TrafficDel(Green);
                           td[2] = new TrafficDel(Red);
                    //to invoke members of the array of delegate
                    public void display()
                           td[o]();
                           td[1]();
                           td[2]();
                    static void Main(string[] args)
                           Console.WriteLine("#53003170057#\n #Dhruvesh
                    Parekh#\n");
                           TrafficSignal ts = new TrafficSignal();
                           ts.IdentifySignal();
                           ts.display(); }}}
```

#53003170057# #Dhruvesh Parekh#

USA INDIA ENGLAND

### **Delegates Events**

#### CODE:

```
using System;
      using System.Collections.Generic;
      using System.Ling;
      using System.Text;
      namespace Delegates
             public delegate void DelEventHandler();
             public class Program
             //an event to add that is associated to a single delegate
             DelEventHandler.
             public static event DelEventHandler add;
             public static void Main(string[] args)
             //filling the delegate invocation lists with a couple of defined methods
             using the +=operator
                   Console.WriteLine("#53003170057#\n #Dhruvesh
Parekh#\n");
                   add += new DelEventHandler(USA);
                   add += new DelEventHandler(India);
                   add += new DelEventHandler(England);
                   //invoke the event via the Invoke method
                   add.Invoke();
                   Console.ReadLine();
             static void USA()
                   Console.WriteLine("USA");
             static void India()
                   Console.WriteLine("India");
             static void England()
                    Console.WriteLine("England");
      }
```

#53003170057#
#Dhruvesh Parekh#

Exception caught: System.DivideByZeroException: Attempted to divide by zero.
at ErrorHandlingApplication.DivNumbers.division(Int32 num1, Int32 num2) in

C:\Users\91704\OneDrive\VisualStudio2010\Projects\ConsoleApplication1\ConsoleApplication1\Program.cs:line 19

Result 0

# ii. Exception Handling

#### CODE:

```
using System;
      using System.Collections.Generic;
      using System.Ling;
      using System.Text;
      namespace ErrorHandlingApplication
             class DivNumbers
                   int result:
                   DivNumbers()
                          result = 0;
                   public void division(int num1, int num2)
                          try
                          {
                                result = num1 / num2;
                          catch (DivideByZeroException e)
                                Console.WriteLine("Exception caught: {o}", e);
                          finally
                                Console.WriteLine("Result: {o}", result);
                   static void Main(string[] args)
                          Console.WriteLine("#53003170057#\n #Dhruvesh
Parekh#\n");
                          DivNumbers d = new DivNumbers();
                          d.division(25, 0);
                          Console.ReadKey();
                   }
             }
      }
```

#53003170057# #Dhruvesh Parekh#

TempIsZeroException: Zero Temperature found

# **Creating User Defined Exception**

#### CODE:

```
using System;
   using System.Collections.Generic;
   using System.Ling;
   using System.Text;
   namespace UserDefinedException
      Class TestTemperature
            static void Main(string[] args)
                   Console.WriteLine("#53003170057#\n #Dhruvesh
Parekh#\n");
                   Temperature temp = new Temperature();
                   try
                         temp.showTemp();
                   catch (TempIsZeroException e)
                         Console.WriteLine("TempIsZeroException: {o}",
                         e.Message);
                   Console.ReadKey();
             }
   }
      public class TempIsZeroException: Exception
            public TempIsZeroException(string message): base(message)
      public class Temperature
            int temperature = 0;
            public void showTemp()
                   if (temperature == 0)
                         throw (new TempIsZeroException("Zero Temperature
                         found"));
                   else
                         Console.WriteLine("Temperature: {o}", temperature);
                   }
            }}
```

#53003170057# #Dhruvesh Parekh#

Enter a number: 5 Not an even number

# Write a program to accept a number from the user and throw an exception if the number is not an even number.

#### CODE:

```
using System;
namespace ExceptionHandlingExample
{
       class NotEvenException:Exception
       public NotEvenException(string msg) : base(msg)
             }
       }
}
namespace ExceptionHandlingExample
       class Program
             static void Main(string[] args)
                     Console.WriteLine("#53003170057#\n #Dhruvesh
              Parekh#\n");
                    int num;
                    try
                            Console.Write("Enter a number: ");
                            num = int.Parse(Console.ReadLine());
                           if ((num % 2) != 0)
                                  throw new NotEvenException("Not an even number");
                           else
                                  Console.WriteLine("Its even number");
                    catch (NotEvenException e)
                           Console.WriteLine(e.Message);
             }
       }
}
```

Student Registration Form				
Name:	User			
Age	20			
Course :	BScIT BMM BMS			
Email ID:	abc@gmail.com			
Hobbies :	<ul><li>✓ Coding</li><li>☐ Reading</li><li>☐ Cooking</li></ul>			
Division:	A			
Feedback :				
Submit				
Student Details				
Name: User    Age: 20    Course: BScIT Email: abc@gmail.com    Hobbies: Coding    Division: A    Feedback:				

# 3A. Create a simple web page with various sever controls to demonstrate setting and use of their properties. (Example : AutoPostBack)

#### CODE:

#### <u>Default.aspx</u>

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</p>
Inherits="_Default" %>
<!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">
    .style1
    {
      width: 119px;
      text-align:center;
    }
    .style3
    {
      height: 68px;
    }
    .style4
    {
      width: 119px;
      text-align: center;
      height: 68px;
    }
    .style5
    {
      width: 119px;
      text-align: center;
```

```
height: 51px;
}
.style6
{
  height: 51px;
}
.style7
{
  width: 119px;
  text-align: center;
  height: 45px;
}
.style8
{
  height: 45px;
}
.style9
{
  width: 119px;
  text-align: center;
  height: 47px;
}
.style10
{
  height: 47px;
}
.style11
{
  width: 119px;
  text-align: center;
  height: 52px;
```

```
}
   .style12
   {
    height: 52px;
  }
 </style>
</head>
<body>
 <form id="form1" runat="server">
 <table id="tbl1" text-align:center border="1" style="height: 786px; width: 777px"
align="center">
 <asp:Label ID="Label1" runat="server"
    Text="Student Registration Form" Enabled="False" Font-Bold="True"
    Font-Italic="False" Height="45px" Width="501px"></asp:Label>
 Name:
 <asp:TextBox ID="TextBox1" runat="server" BorderColor="Black"
    ></asp:TextBox>
  Age
 <asp:TextBox ID="TextBox2" runat="server"
    BorderColor="Black"></asp:TextBox>
```

```
Course:
<asp:RadioButtonList ID="RadioButtonList1" runat="server">
    <asp:ListItem>BScIT</asp:ListItem>
    <asp:ListItem>BMM</asp:ListItem>
    <asp:ListItem>BMS</asp:ListItem>
  </asp:RadioButtonList>
 Email ID:
 <asp:TextBox ID="TextBox3" runat="server" BorderColor="Black"></asp:TextBox>
Hobbies:
 <asp:CheckBoxList ID="CheckBoxList1" runat="server">
  </asp:CheckBoxList>
```

```
Division:
<asp:DropDownList ID="DropDownList1" runat="server">
   <asp:ListItem>Select Division</asp:ListItem>
   <asp:ListItem>A</asp:ListItem>
   <asp:ListItem>B</asp:ListItem>
  </asp:DropDownList>
Feedback:
 <asp:TextBox ID="TextBox4" runat="server"
   TextMode="MultiLine"></asp:TextBox>
 <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
  Text="Submit" />
 <asp:Label ID="Label2" runat="server"></asp:Label>
```

```
</form>
</body>
</html>
Default.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class _Default : System.Web.UI.Page
{
  protected void Page_Load(object sender, EventArgs e)
  {
    if (!this.IsPostBack)
      CheckBoxList1.Items.Add("Coding");
      CheckBoxList1.Items.Add("Reading");
      CheckBoxList1.Items.Add("Cooking");
    }
  protected void Button1_Click(object sender, EventArgs e)
  {
    String str = "<b>Student Details</b><br/>br/><br/>";
    str += "Name: " + TextBox1.Text+"<br/>";
    str += "Age: " + TextBox2.Text + "<br/>";
    str += "Course: " +
RadioButtonList1.Items[RadioButtonList1.SelectedIndex].Text+"<br/>';
    str += "Email: " + TextBox3.Text + "<br/>";
    str+="Hobbies: ";
```

```
foreach(ListItem lst in CheckBoxList1.Items)
  {
    if(lst.Selected==true)
    {
      str += lst.Text + "<br/>";
    }
  }
  str+="Division: ";
  foreach(ListItem lst1 in DropDownList1.Items)
  {
    if(lst1.Selected==true)
      str+=lst1.Text;
    }
  }
  str += "<br>";
  str += "<b>Feedback: </b>" + TextBox4.Text+"<br/>";
  Label2.Text = str;
}
```

}

53003170107 Rhitik Wadhvana

<u>Aug</u>	September <u>Oct</u>					
Su	Мо	Tu	We	Th	Fr	Sa
<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>
1	2	<u>3</u>	<u>4</u>	<u>5</u> Teachers Day!	<u>6</u>	7
8	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u> Ganpati!	<u>14</u>
<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>		<u>20</u>	<u>21</u>
<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>
<u>29</u>	<u>30</u>	1	2	<u>3</u>	4	<u>5</u>

reset

Your Selected Date:10-09-2019 00:00:00

Todays Date19-09-2019

Ganpati Vacation Start: 9-13-2018

Days Remaining For Ganpati Vacation:-371

Days Remaining for New Year:-262

- 3B. Demonstrate the use of Calendar control to perform following operations.
- a) Display messages in a calendar control
- b) Display vacation in a calendar control
- c) Selected day in a calendar control using style
- d) Difference between two calendar dates

#### CODE:

#### **Default.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</p>
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <asp:Calendar ID="Calendar1" runat="server" BackColor="#FFFFCC"
BorderColor="#FFCC66" BorderWidth="1px" DayNameFormat="Shortest"
Font-Names="Verdana" Font-Size="8pt" ForeColor="#663399" Height="200px"
NextPrevFormat="ShortMonth" OnDayRender="Calendar1_DayRender"
ShowGridLines="True" Width="300px"
OnSelectionChanged="Calendar1 SelectionChanged" >
<DayHeaderStyle BackColor="#FFCC66" Font-Bold="True" Height="1px" />
<NextPrevStyle BorderStyle="Solid" BorderWidth="2px" Font-Size="9pt"</pre>
ForeColor="#FFFFCC" />
<OtherMonthDayStyle BackColor="#FFCC99" BorderStyle="Solid"</pre>
ForeColor="#CC9966" />
<SelectedDayStyle BackColor="Red" Font-Bold="True" />
<SelectorStyle BackColor="#FFCC66" />
<TitleStyle BackColor="#990000" Font-Bold="True" Font-Size="9pt"
ForeColor="#FFFFCC" />
<TodayDayStyle BackColor="#FFCC66" ForeColor="White" />
<WeekendDayStyle Height="50px"/>
</asp:Calendar>
  </div>
 <br />
  <br />
      <asp:Button ID="btnReset" runat="server" Text="reset"
      onclick="btnReset_Click" />
```

```
<br />
      <asp:Label ID="Label1" runat="server"></asp:Label>
  <br />
      <asp:Label ID="Label2" runat="server"></asp:Label>
  <br />
      <asp:Label ID="Label3" runat="server"></asp:Label>
  <br />
      <asp:Label ID="Label4" runat="server"></asp:Label>
      <asp:Label ID="Label5" runat="server"></asp:Label><br />
  </form>
</body>
</html>
Default.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI:
using System.Web.UI.WebControls;
public partial class _ Default : System.Web.UI.Page
  protected void Calendarı DayRender(object sender,
System.Web.UI.WebControls.DayRenderEventArgs e)
  {
    if (e.Day.Date.Day == 5 && e.Day.Date.Month == 9)
      e.Cell.BackColor = System.Drawing.Color.Yellow;
      Label lbl = new Label();
      lbl.Text = "<br/>br>Teachers Day!";
      e.Cell.Controls.Add(lbl);
      Image g1 = new Image();
      g1.ImageUrl = "td.jpg";
      g1.Height = 20;
      g1.Width = 20;
      e.Cell.Controls.Add(g1);
    if (e.Day.Date.Day == 13 \&\& e.Day.Date.Month == 9)
      Calendar1.SelectedDate = new DateTime(2018, 9, 12);
      Calendar1.SelectedDates.SelectRange(Calendar1.SelectedDate,
Calendar1.SelectedDate.AddDays(10));
      Label lbl1 = new Label();
      lbl1.Text = "<br>Ganpati!";
      e.Cell.Controls.Add(lbl1);
```

```
}
  protected void btnReset_Click(object sender, EventArgs e)
    Label1.Text = "";
    Label2.Text = "";
    Label3.Text = "";
    Label4.Text = "";
    Label5.Text = "";
    Calendar1.SelectedDates.Clear();
  }
  protected void Calendar1_SelectionChanged(object sender, EventArgs e)
    Label1.Text = "Your Selected Date:" + Calendar1.SelectedDate.Date.ToString();
    Calendar1.Caption = "Title";
    Calendar1.FirstDayOfWeek = FirstDayOfWeek.Sunday;
    Calendar1.NextPrevFormat = NextPrevFormat.ShortMonth;
    Calendar1.TitleFormat = TitleFormat.Month;
    Label2.Text = "Todays Date" + Calendar1.TodaysDate.ToShortDateString();
   Label3.Text = "Ganpati Vacation Start: 9-13-2018";
    TimeSpan d = new DateTime(2018, 9, 13) - DateTime.Now;
    Label4.Text = "Days Remaining For Ganpati Vacation:" + d.Days.ToString();
    TimeSpan d1 = new DateTime(2018, 12, 31) - DateTime.Now;
    Label<sub>5</sub>.Text = "Days Remaining for New Year:" + d<sub>1</sub>.Days.ToString();
    if(Calendar1.SelectedDate.ToShortDateString() == "9/13/2018")
      Label3.Text = "<b>Ganpati Festival Startss</b>";
    if(Calendar1.SelectedDate.ToShortDateString() == "9/23/2018")
      Label3.Text = "<b>Ganpati Festival End</b>";
  }
}
```

#### Treeview control navigation:

- ▼ ASP.NET Practs
  - Description Calendar Control
  - Description Constructor Overloading
  - ▶ Inheritance
  - D Class Properties

# Fetch Datalist Using XML data :

Roll Num: 1

Name : Rhitik Wadhvana

Class : TYIT

Roll Num : 2 Name : Sonali Class : TYCS

Roll Num : 3

Name : Yashashree

Class : TYIT

Roll Num : 4 Name : Vedshree Class : TYCS

# **3C.** Demonstrate the use of Treeview control perform following operations. A)Treeview control and datalist b)Treeview operations.

#### CODE:

#### **Default.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        Treeview control navigation:
        <asp:TreeView ID = "TreeView1" runat = "server" Width =</pre>
"150px" ImageSet="Arrows">
<HoverNodeStyle Font-Underline="True" ForeColor="#5555DD" />
<asp:TreeNode Text = "ASP.NET Practs" Value = "New Node">
<asp:TreeNode Text = "Calendar Control" Value = "RED" NavigateUrl="~/calndrCtrl.aspx">
</asp:TreeNode>
<asp:TreeNode Text = "Constructor Overloading" Value = "GREEN"</pre>
NavigateUrl="~/clsconstrc.aspx"> </asp:TreeNode>
<asp:TreeNode NavigateUrl="~/singleInh.aspx" Text="Inheritance"</pre>
Value="BLUE"></asp:TreeNode>
<asp:TreeNode NavigateUrl="~/clsProp.aspx" Text="Class Properties" Value="Class</pre>
Properties"></asp:TreeNode>
</asp:TreeNode>
</Nodes>
<NodeStyle Font-Names="Tahoma" Font-Size="10pt" ForeColor="Black"</pre>
HorizontalPadding="5px" NodeSpacing="0px" VerticalPadding="0px" />
<ParentNodeStyle Font-Bold="False" />
<SelectedNodeStyle Font-Underline="True" ForeColor="#5555DD"</pre>
HorizontalPadding="0px" VerticalPadding="0px" />
</asp:TreeView>
<br />
Fetch Datalist Using XML data : </div>
<asp:DataList ID="DataList1" runat="server">
<ItemTemplate>
Roll Num : <%# Eval("sid") %><br />
Name : 

Name : 

Class : <%# Eval("sclass")%>
</ItemTemplate>
</asp:DataList>
```

```
</form>
</body>
</html>
```

#### **Default.aspx.cs**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
public partial class _Default : System.Web.UI.Page
    protected void Page_Load(object sender, EventArgs e)
        if (!IsPostBack)
        {
            BindData();
    }
    protected void BindData()
        DataSet ds = new DataSet();
        ds.ReadXml(Server.MapPath("XMLFile.xml"));
        if (ds != null && ds.HasChanges())
            DataList1.DataSource = ds;
            DataList1.DataBind();
        }
        else
        {
            DataList1.DataBind();
    }
}
```

#### XMFile.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<studentdetail>
  <student>
    <sid>1</sid>
    <sname>Tushar</sname>
    <sclass>TYIT</sclass>
  </student>
  <student>
    <sid>2</sid>
    <sname>Sonali</sname>
    <sclass>TYCS</sclass>
  </student>
  <student>
    <sid>3</sid>
    <sname>Yashashree
    <sclass>TYIT</sclass>
  </student>
  <student>
```

```
<sid>4</sid>
    <sname>Vedshree</sname>
    <sclass>TYCS</sclass>
 </student>
</studentdetail>
                                                                                     60
```



Dhruvesh Parekh

# 4B. Create Web Form to demonstrate use of Adrotator Control. Add a XML File, name it "adds.xml".

#### **CODE:**

#### Adds.xml

```
<Advertisements>
<Ad>
       <ImageUrl>rose1.jpg</ImageUrl>
       <NavigateUrl>http://www.1800flowers.com</NavigateUrl>
       <AlternateText>
         Order flowers, roses, gifts and more </AlternateText>
       <Impressions>20</Impressions>
        <Keyword>flowers</Keyword>
</Ad>
<Ad>
       <ImageUrl>rose2.jpg</ImageUrl>
       <NavigateUrl>http://www.babybouquets.com.au</NavigateUrl>
        <AlternateText>Order roses and flowers</AlternateText>
       <Impressions>20</Impressions>
       <Keyword>gifts</Keyword>
</Ad>
<Ad>
        <ImageUrl>rose3.jpeg</ImageUrl>
       <NavigateUrl>http://www.flowers2moscow.com</NavigateUrl>
       <AlternateText>Send flowers to Russia</AlternateText>
        <Impressions>20</Impressions>
       <Keyword>russia</Keyword>
</Ad>
</Advertisements>
```

#### <u>Default.aspx</u>

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"</pre>
Inherits="WebApplication2.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:AdRotator ID="AdRotator1" runat="server"</pre>
DataSourceID="XmlDataSource1" />
            <asp:XmlDataSource ID="XmlDataSource1" runat="server"</pre>
DataFile="~/XMLFile1.xml"></asp:XmlDataSource>
        </div>
    </form>
</body> </html>
```

# This is user Control

Name	Dhruvesh
City	Mumbai
	Save

Your name is Dhruvesh and you are from Mumbai

4C. Create Web Form to demonstrate the use of User Controls. Add Web User Control Website -> Add -> Web User Control and name it 'MyUserControl'.

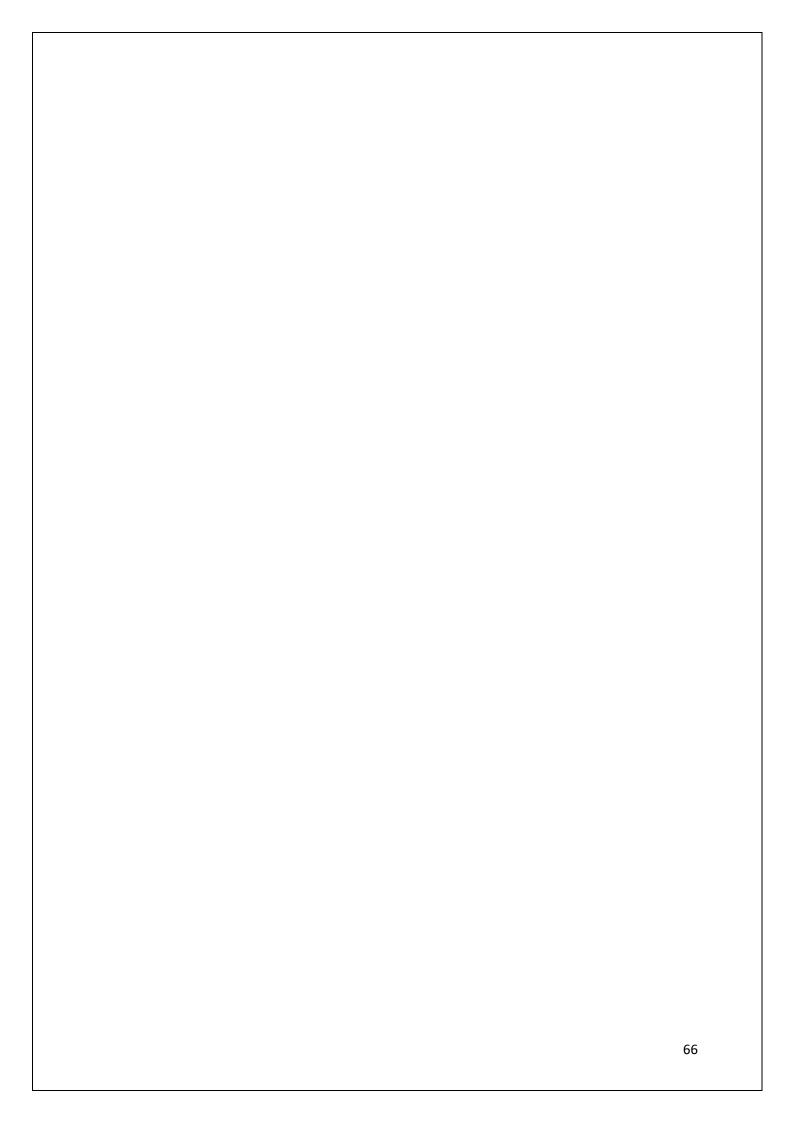
#### CODE:

#### <u>Default.aspx</u>

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</p>
Inherits="_Default" %>
<%@ Register Src="~/WebUserControl.ascx" TagPrefix="uc"</p>
TagName="Student"%>
<!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>
</head>
<body>
 <form id="form1" runat="server">
  <div>
    <uc:Student ID="studentcontrol" runat="server" />
</div>
  </form>
</body>
</html>
WebUserControl.ascx
<%@ Control Language="C#" AutoEventWireup="true"</p>
CodeFile="WebUserControl.ascx.cs" Inherits="WebUserControl" %>
<h3>This is User Contro1 </h3>
Name
<asp:TextBox ID="txtName" runat="server"></asp:TextBox>
City
```

<asp:TextBox ID="txtcity" runat="server"></asp:TextBox>

```
<asp:Button ID="txtSave" runat="server" Text="Save" onclick="txtSave_Click" />
<br />
<asp:Label ID="Label1" runat="server" Text=" "></asp:Label>
WebUserControl.ascx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class WebUserControl: System.Web.UI.UserControl
 protected void Page_Load(object sender, EventArgs e)
 protected void txtSave_Click(object sender, EventArgs e)
   Label1.Text = "Your Name is" + txtName.Text + " and you are from " +
   txtcity.Text;
}
```



Thanx for Clicking. This is my Second webpage by using SiteMapPath control.....#53003170107# Rhitik Wadhvana#

 $SiteMap: \underline{myhomepage} > mysecondpage$ 

Click here to go to Home page

# 5A. Create Web Form to demonstrate use of Website Navigation controls and Site Map.

#### CODE:

#### **Default.aspx**

```
<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master"</p>
AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="Default" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="HeaderContent"</pre>
Runat="Server">
</asp:Content>
<asp:Content ID="Content3" ContentPlaceHolderID="BodyContent"
Runat="Server">
<asp:SiteMapPath ID="SiteMapPath1" runat="server">
    </asp:SiteMapPath>
    <br />
    <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/myweb1.aspx">Click here to go to first page</asp:HyperLink>
    <asp:HyperLink ID="HyperLink2" runat="server"</pre>
NavigateUrl="~/myweb2.aspx">Click here to go to second page</asp:HyperLink>
</asp:Content>
MasterPage.master
<%@ Master Language="C#" AutoEventWireup="true"</p>
CodeFile="MasterPage.master.cs" Inherits="MasterPage" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"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>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:ContentPlaceHolder id="HeaderContent" runat="server">
    </asp:ContentPlaceHolder>
```

```
<asp:ContentPlaceHolder id="BodyContent" runat="server">
    </asp:ContentPlaceHolder>
  </div>
  </form>
</body>
</html>
myweb1.aspx
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="myweb1.aspx.cs"</p>
Inherits="myweb1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
 <div>
    <asp:Label1" runat="server"
     Text="Thank you for clicking. This is My First
Webpage....."></asp:Label>
    <br />
    <br />
    <asp:Label ID="Label2" runat="server" Text="SiteMap:"></asp:Label>
    <asp:SiteMapPath ID="SiteMapPath1" runat="server">
    </asp:SiteMapPath>
    <br />
    <br />
    <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/myweb2.aspx">click here to go to mywebpage2</asp:HyperLink>
  </div>
  </form>
</body>
</html>
myweb2.aspx
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="myweb2.aspx.cs"</p>
Inherits="myweb2" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
     <form id="form1" runat="server">
      <asp:Label ID="Label1" runat="server"
         Text="Thanx for Clicking. This is my Second webpage by using
SiteMapPath control....">
      </asp:Label>
   </div>
   <asp:Label ID="Label2" runat="server" Text="SiteMap: "></asp:Label>
      <asp:SiteMapPath ID="SiteMapPath1" runat="server">
      </asp:SiteMapPath>
   <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/Default.aspx">Click here to go to Home
page</asp:HyperLink>&nbsp;
  </form>
</body>
</html>
Web.sitemap
<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
 <siteMapNode url="Default.aspx" title="myhomepage" description="">
  <siteMapNode url="myweb1.aspx" title="myfirstpage" description=""/>
 <siteMapNode url="myweb2.aspx" title="mysecondpage" description="" />
 </siteMapNode>
</sitemap>
```



# **5B.** Create a web application to demonstrate use of Master Page with applying Styles and Themes for page beautification.

#### CODE:

#### **Default.aspx**

```
<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage5B.master"</p>
AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits=" Default" Theme =
"SkinFile" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent"
Runat="Server">
 your content goes here < br />
 <asp:ListBox ID="ListBox1" runat="server">
    <asp:ListItem>BMS</asp:ListItem>
    <asp:ListItem>BScIT</asp:ListItem>
    <asp:ListItem>BMM</asp:ListItem>
  </asp:ListBox>
<br />
  <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Show"
  <asp:Button ID="Button2" runat="server" onclick="Button2_Click" Text="Hide"
/>
  <br />
</asp:Content>
<asp:Content ID="Content3" ContentPlaceHolderID="AdditionalContent"</pre>
Runat="Server">
additional content :- Performed by Jay Modi
</asp:Content>
Default.aspx.cs
using System:
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class Default : System.Web.UI.Page
 protected void Page_Load(object sender, EventArgs e)
 protected void Button1_Click(object sender, EventArgs e)
```

```
MasterPage5B master = (MasterPage5B)this.Master;
    master.ShowNavigationControls = true;
  protected void Button2_Click(object sender, EventArgs e)
    MasterPage5B master = (MasterPage5B)this.Master;
    master.ShowNavigationControls = false:
 }
}
MasterPage5B.master
<%@ Master Language="C#" AutoEventWireup="true"</p>
CodeFile="MasterPage5B.master.cs" Inherits="MasterPage5B" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"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">
   body
     width:80%;
  .Header
     position: absolute;
    top: 10px;
    left: 10px;
    height: 60px;
      text-align: center;
      background-color:Aqua;
      width:100%;
      text-align:center;
}
.LeftPanel
      position: absolute;
      top: 100px;
      left: 10px;
      /*width: 160px;*/
      background-color: #CoCoCo;
       width:10%;
```

```
height:200px;
.RightPanel
      position: absolute;
      top: 100px;
      right: 10px;
      /*width: 160px;*/
       width:10%;
      background-color: #9999FF;
      height:200px;
.CenterPanel
      position: absolute;
      top: 100px;
      margin-left: 175px;
      margin-right: 180px;
      background-color: #99FFCC;
      width:70%;
      height:200px;
  </style>
</head>
<body >
<form id = "form1" runat = "server">
<div class = "Header">
<h1> My Header</h1>
</div>
<div class = "LeftPanel">
<asp:TreeView ID = "TreeView1" runat = "server" Width = "150px">
<Nodes>
<asp:TreeNode Text = "Root" Value = "New Node">
<asp:TreeNode Text = "Page 1" Value = "Page 1"> </asp:TreeNode>
<asp:TreeNode Text = "Page 2" Value = "Page 2" > </asp:TreeNode>
</asp:TreeNode>
</Nodes>
</asp:TreeView>
</div>
<div class = "CenterPanel">
<asp:ContentPlaceHolder id = "MainContent" runat = "server">
</asp:ContentPlaceHolder>
</div>
<div class = "RightPanel">
<asp:ContentPlaceHolder id = "AdditionalContent" runat = "server">
</asp:ContentPlaceHolder>
</div>
```

```
</form>
</body>
</html>
```

### MasterPage5B.master.cs

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

public partial class MasterPage5B : System.Web.UI.MasterPage
{
    public bool ShowNavigationControls
    {
        get
        {
            return TreeView1.Visible;
        }
        set
        {
            TreeView1.Visible = value;
        }
    } protected void Page_Load(object sender, EventArgs e) {}
}
```

#### SkinFile.skin

### <mark><%</mark>--

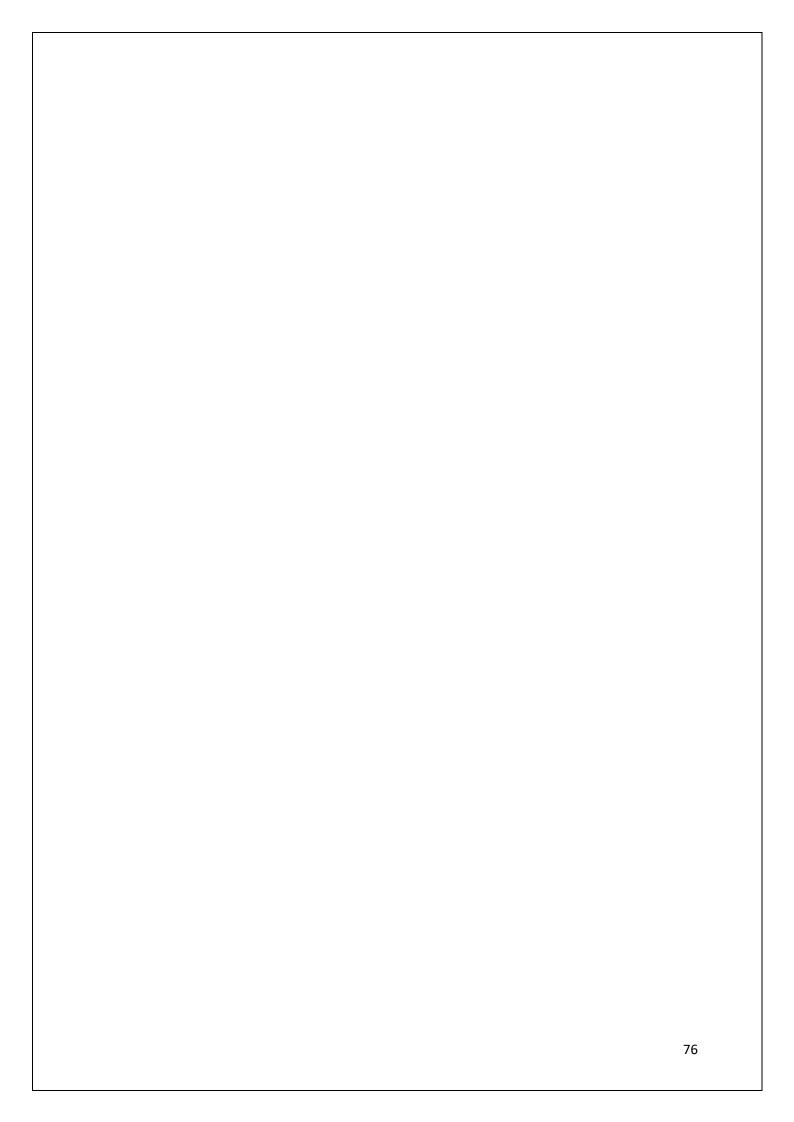
Default skin template. The following skins are provided as examples only.

1. Named control skin. The SkinId should be uniquely defined because duplicate SkinId's per control type are not allowed in the same theme.

2. Default skin. The SkinId is not defined. Only one default control skin per control type is allowed in the same theme.

```
<asp:Image runat="server" ImageUrl="~/images/image1.jpg" /> --<mark>%></mark>
```

```
<asp:ListBox runat = "server" ForeColor = "White" BackColor = "Orange"/>
<asp:TextBox runat = "server" ForeColor = "White" BackColor = "Orange"/>
<asp:Button runat = "server" ForeColor = "White" BackColor = "Orange"/>
```



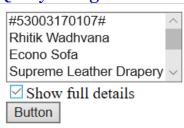
### Session



ViewState

Button Button
Label Counter: 5

### QueryString



Item: Rhitik Wadhvana Show Full Record: True

### Cookies

Cookie Created.

New Customer: Rhitik Wadhvana

Name: Rhitik Wadhvana Create Cookies

## **5C.** Create a web application to demonstrate various states of ASP.NET Pages.

#### CODE:

```
session.aspx
```

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="session.aspx.cs"</p>
Inherits="session" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:TextBox ID="JayModi" runat="server" Text="#53003170050#Jay
      Modi#"> </asp:TextBox>
      <br />
    <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
    <br />
    <asp:Button ID="Button1" runat="server" Text="Button"
onclick="Button1 Click"/>
    <br />
    <asp:Button ID="Button2" runat="server" onclick="Button2" Click"
Text="Button" />
  </div>
  </form>
</body>
</html>
session.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class session: System.Web.UI.Page
 protected void Page_Load(object sender, EventArgs e)
```

```
if (!IsPostBack)
      if (Session["Counter"] == null)
        Session["Counter"] = 0;
      TextBox1.Text = Session["Counter"].ToString();
   }
  }
  protected void Button1_Click(object sender, EventArgs e)
    if (Session["Counter"] != null)
      int SessionCounter = (int)Session["Counter"] + 1;
      TextBox1.Text = SessionCounter.ToString();
      Session["Counter"] = SessionCounter;
   }
  }
  protected void Button2 Click(object sender, EventArgs e)
    Response.Redirect("secondPage.aspx");
}
secondPage.aspx
<%@ Page Language="C#" AutoEventWireup="true"</p>
CodeFile="secondPage.aspx.cs" Inherits="secondPage" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
  </div>
  </form>
</body>
</html>
secondPage.aspx.cs
using System;
using System.Collections.Generic;
```

```
using System.Ling;
using System.Web:
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class secondPage: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
   if (Session["Counter"] != null)
      Label1.Text = Session["Counter"].ToString();
 }
ViewState.aspx
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="ViewState.aspx.cs"</p>
Inherits="ViewState" %>
<!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>
</head>
<body>
  <form id="form1" runat="server">
    <asp:Button ID="Button1" runat="server" Text="Button"
onclick="Button1_Click" />
    <br />
    <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
  </div>
  </form>
</body>
</html>
ViewState.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class ViewState: System.Web.UI.Page
```

```
protected void Page_Load(object sender, EventArgs e)
 protected void Button1 Click(object sender, EventArgs e)
   int counter;
   if (ViewState["Counter"] == null)
      counter = 1;
   else
      counter = (int)ViewState["Counter"] + 1;
    ViewState["Counter"] = counter;
    Label1.Text = "Counter: " + counter.ToString();
 }
QueryString.aspx
<%@ Page Language="C#" AutoEventWireup="true"</p>
CodeFile="QueryString.aspx.cs" Inherits="QueryString" %>
<!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>
</head>
<body>
  <form id="form1" runat="server">
    <asp:ListBox ID="lstItems" runat="server"></asp:ListBox>
    <br />
    <asp:CheckBox ID="chkDetails" runat="server" Text="Show full details" />
    <br />
    <asp:Button ID="Button1" runat="server" Text="Button"
onclick="Button1 Click"/>
    <br />
    <asp:Label ID="lblError" runat="server" ></asp:Label>
  </div>
  </form>
</body>
</html>
```

### QueryString.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class QueryString: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
    if (!this.IsPostBack)
      // Add sample values.
      lstItems.Items.Add("#53003170057#");
      lstItems.Items.Add("Dhruvesh Parekh");
      lstItems.Items.Add("Econo Sofa");
      lstItems.Items.Add("Supreme Leather Drapery");
      lstItems.Items.Add("Threadbare Carpet");
     lstItems.Items.Add("Antique Lamp");
      lstItems.Items.Add("Retro-Finish Jacuzzi");
    }
  protected void Button1 Click(object sender, EventArgs e)
    if (lstItems.SelectedIndex == -1)
      lblError.Text = "You must select an item.";
    else
    { // Forward the user to the information page,
      // with the query string data.
      string url = "QueryString2.aspx?";
      url += "Item=" + lstItems.SelectedItem.Text + "&";
      url += "Mode=" + chkDetails.Checked.ToString();
      Response.Redirect(url):
QueryString2.aspx
<%@ Page Language="C#" AutoEventWireup="true"</p>
CodeFile="OuervString2.aspx.cs" Inherits="OuervString2" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:Label ID="lblInfo" runat="server" ></asp:Label>
  </div>
  </form>
</body>
</html>
QueryString2.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class QueryString2: System.Web.UI.Page
 protected void Page_Load(object sender, EventArgs e)
   lblInfo.Text = "Item: " + Request.QueryString["Item"];
      lblInfo.Text += "<br/>Show Full Record: ";
      lblInfo.Text += Request.QueryString["Mode"];
cookies.aspx
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="cookies.aspx.cs"</p>
Inherits="cookies" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:Label ID="lblWelcome" runat="server" ></asp:Label>
    Name:<asp:TextBox ID="txtName" runat="server"></asp:TextBox>
    <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
```

```
Text="Create Cookies" />
    <br />
  </div>
  </form>
</body>
</html>
cookies.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Net;
public partial class cookies: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
    HttpCookie cookie = Request.Cookies["Preferences"];
    if (cookie == null)
      lblWelcome.Text = "Unknown Customer <br/> ";
    }
    else
      lblWelcome.Text = "Cookie Found. <br/> ';
      lblWelcome.Text += "Welcome," + cookie["Name"];
    }
  }
  protected void Button1 Click(object sender, EventArgs e)
    // Check for a cookie, and create a new one only if one doesn't already exist.
      // retrieve the cookie, which is named Preferences
           HttpCookie cookie = Request.Cookies["Preferences"];
    if (cookie == null)
    { cookie = new HttpCookie("Preferences");
    cookie["Name"] = txtName.Text;
    cookie.Expires = DateTime.Now.AddYears(1);
    Response.Cookies.Add(cookie);
    lblWelcome.Text = "Cookie Created. <br/> ";
    lblWelcome.Text += "New Customer: " + cookie["Name"];
}
 }
```

select \* from Table1

09 57 Dhruvesh Parekh Malad 16 58 Ankit Patel Goregaon 72 Aayush Shah Jogeshwari 20 83 Ronak Shah Andheri 07 96 Rishi Thakker Vile Parle 01 97 Rutvik Thakrar Santacruz 20 104 Jigar Vadhwana Khar 27 106 Yash Vora Bandra 20 107 Rhitik Wadhvana Mahim 23

Button

# 6A. Create a web application bind data in a multiline textbox by querying in another textbox.

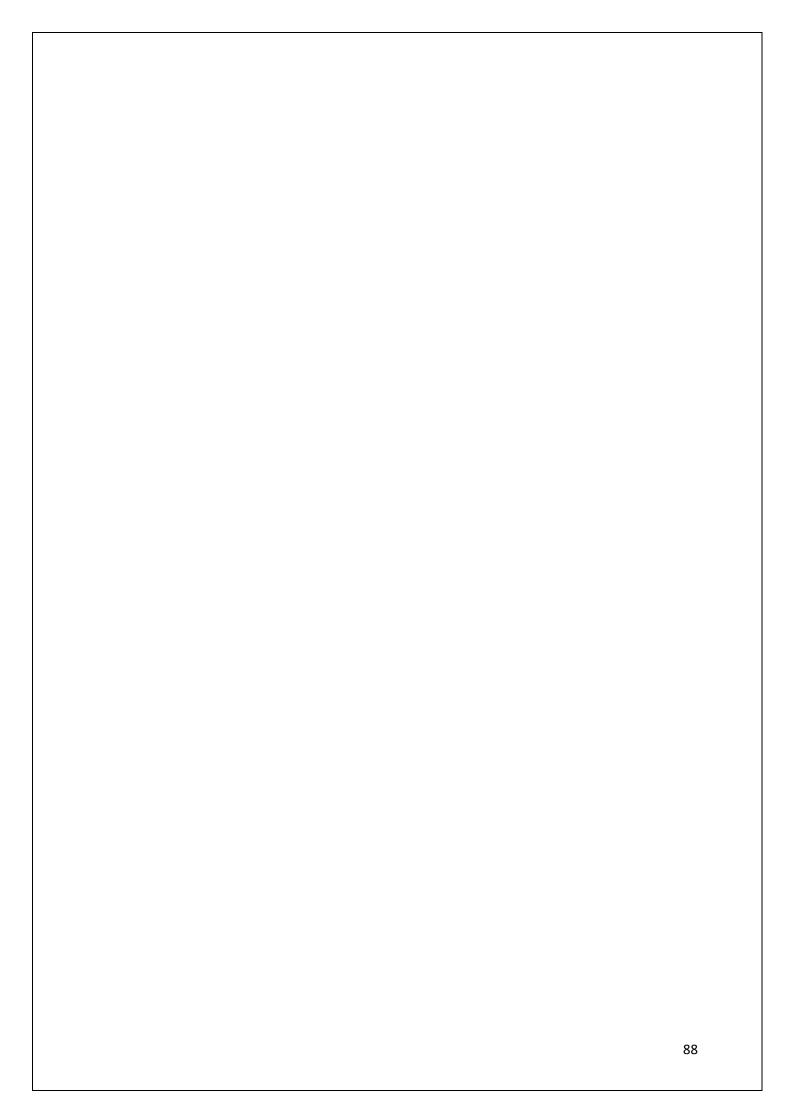
### CODE:

### **Default.aspx**

string connStr =

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits=" Default" %>
<!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>
</head>
<body>
<form id="form1" runat="server">
<asp:TextBox ID="TextBox1" runat="server" Height="91px" TextMode="MultiLine"</pre>
Width="323px"></asp:TextBox>
<br />
<br />
<asp:ListBox ID="ListBox1" runat="server"></asp:ListBox>
<br />
<br />
<asp:Button ID="Button1" runat="server" onclick="Button1" Click" Text="Button"
</div>
</form>
</body>
</html>
Default.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web:
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
protected void Page Load(object sender, EventArgs e)
protected void Button1_Click(object sender, EventArgs e)
```

```
ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
SqlConnection con = new SqlConnection(connStr);
con.Open();
SqlCommand cmd = new SqlCommand(TextBox1.Text, con);
SqlDataReader reader = cmd.ExecuteReader();
ListBox1.Items.Clear();
while (reader.Read())
//To add new blank line in the text area
int j = reader.FieldCount;
for (int i = 0; i < j; i++)
ListBox1.Items.Add(reader[i].ToString());
reader.Close();
con.Close();
Web.config
<?xml version="1.0"?>
<!--
For more information on how to configure your ASP.NET application, please visit
http://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
<svstem.web>
<compilation debug="false" targetFramework="4.0" />
</system.web>
<connectionStrings>
<add name="connStr" connectionString="Data
Source=.\SQLEXPRESS;AttachDbFilename='C:\Users\admin\Documents\Visual
Studio 2010\WebSites\WebSite13\App_Data\Database.mdf';Integrated
Security=True; User Instance=True" />
</connectionString>
</configuration>
```



Click Button to show records:

Button

### Click Button to show records:

Yash Lathigara
Jay Modi
Dhruvesh Parekh
Ankit Patel
Aayush Shah
Ronak Shah
Rishi Thakker
Rutvik Thakrar
Jigar Vadhwana
Yash Vora
Rhitik Wadhvana

Button

# 6B. Create a web application to display records by using database.

### CODE:

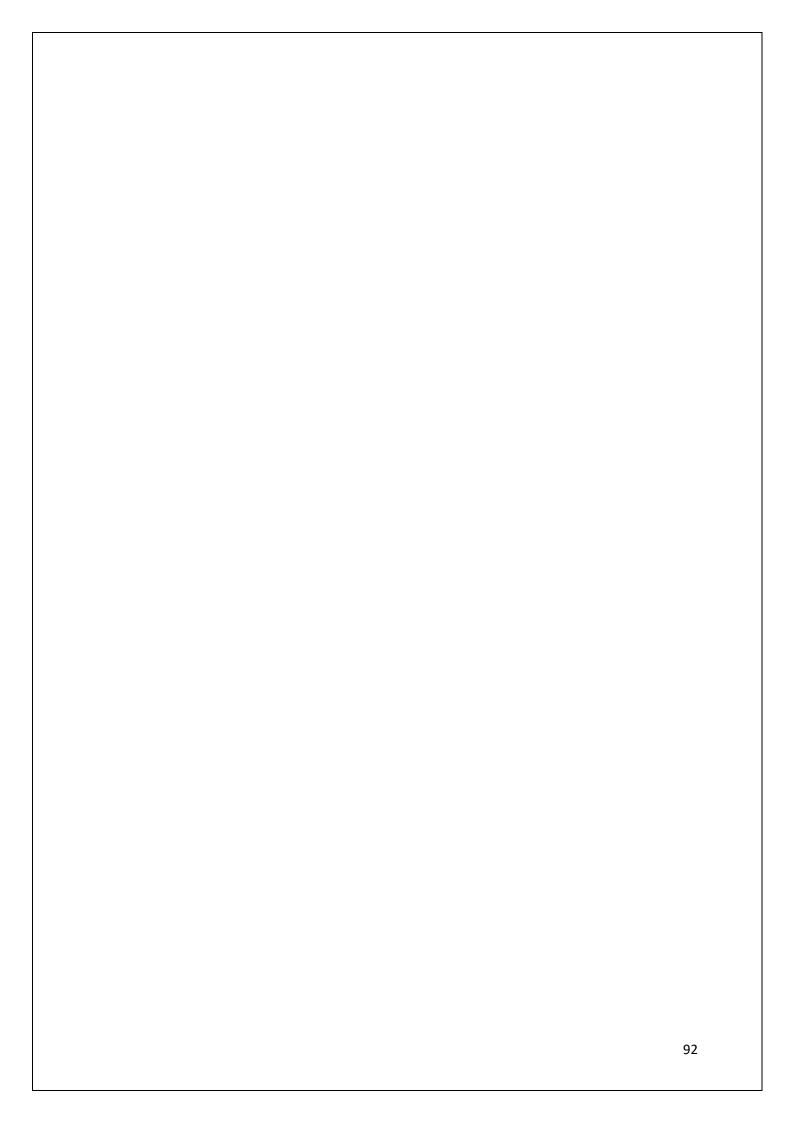
### <u>Default.aspx</u>

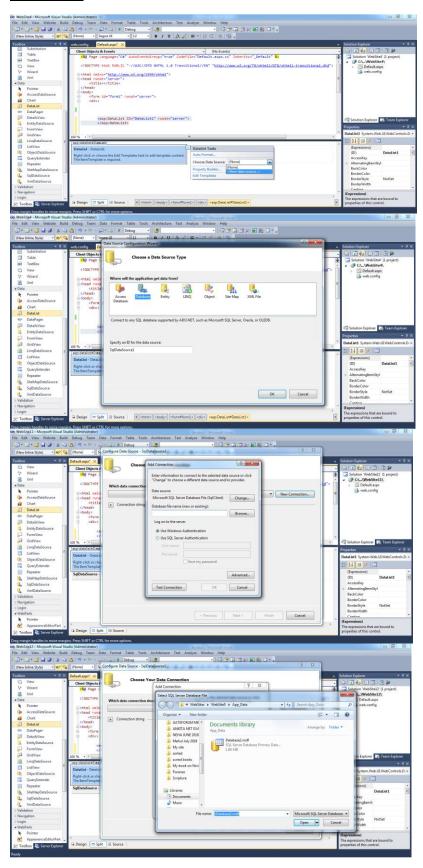
```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</p>
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
 Click Button to show records: <br />
<br />
  <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
<br />
<br />
<br />
<asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Button"
</div>
</form>
</body>
</html>
```

### <u>Default.aspx.cs</u>

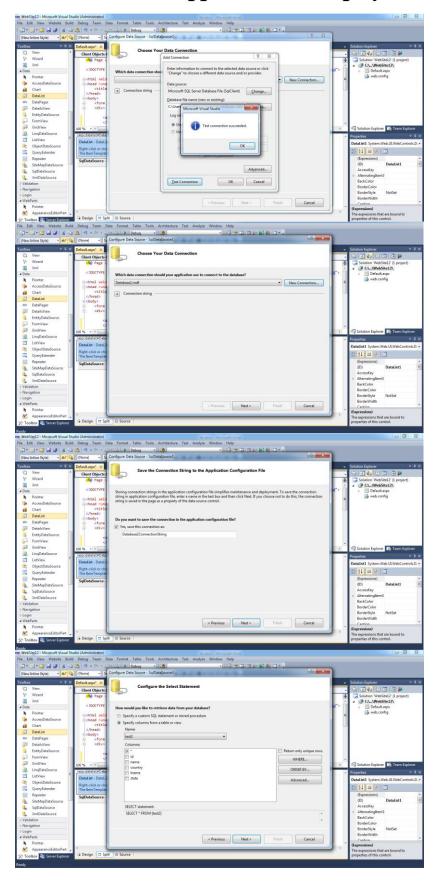
```
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
{
    }
}
protected void Button1_Click(object sender, EventArgs e)
{
    string connStr =
    ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
```

```
SqlConnection con = new SqlConnection(connStr); SqlCommand cmd = new
SqlCommand("Select City, State from Customer", con);
con.Open();
SqlDataReader reader = cmd.ExecuteReader():
while (reader.Read()) { Label1.Text += reader["City"].ToString() + " " +
reader["State"].ToString() + "<br>";
reader.Close(); con.Close();
Web.config
<?xml version="1.0"?>
<!--
For more information on how to configure your ASP.NET application, please visit
http://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
<svstem.web>
<compilation debug="false" targetFramework="4.0" />
</system.web>
<connectionStrings>
<add name="connStr" connectionString="Data
Source=.\SQLEXPRESS;AttachDbFilename='C:\Users\admin\Documents\Visual
Studio 2010\WebSites\WebSite13\App_Data\Database.mdf';Integrated
Security=True; User Instance=True" />
</connectionString>
</configuration>
```





### 6C. Create a web application to display records using database.



Dhruvesh ▼

Click Me!

The name you selected is: Dhruvesh

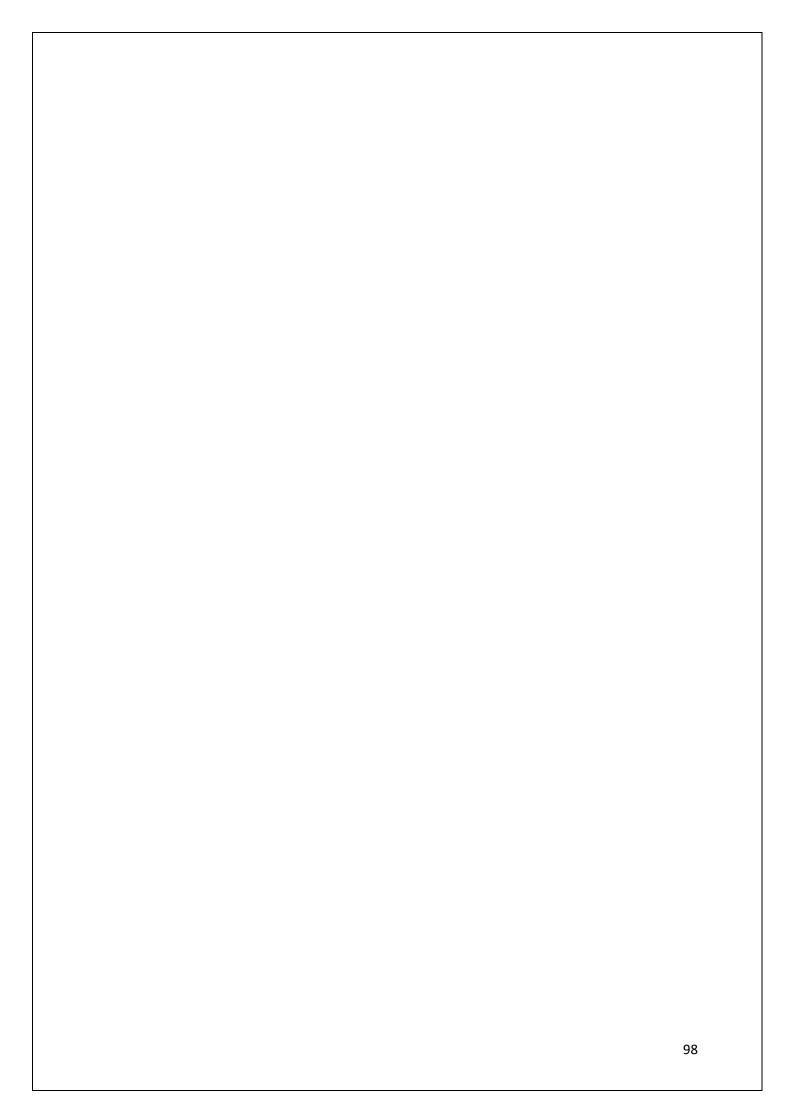
# 7A. Create a web application to display Databinding using Dropdownlist control.

### CODE:

### **Default.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:DropDownList ID="DropDownList1" runat="server">
        </asp:DropDownList>
    </div>
    >
        <asp:Button ID="Button1" runat="server" Text="Click Me !"</pre>
onclick="Button1 Click" />
    >
         
    >
        <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
    </form>
</body>
</html>
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (IsPostBack == false)
        {
            string connStr =
        ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
            SqlConnection con = new SqlConnection(connStr);
```



Yash Lathigara
Jay Modi
Dhruvesh Parekh
Ankit Patel
Aayush Shah
Ronak Shah
Rishi Thakker
Rutvik Thakrar
Jigar Vadhwana
Yash Vora
Rhitik Wadhvana

Get Phone No

### Yash Lathigara Jay Modi Dhruvesh Parekh Ankit Patel

Aayush Shah Ronak Shah Rishi Thakker Rutvik Thakrar Jigar Vadhwana Yash Vora Rhitik Wadhvana

Get Phone No

Your Phone No is: 123

# 7B. Create a web application to display the postal code no of customer using database.

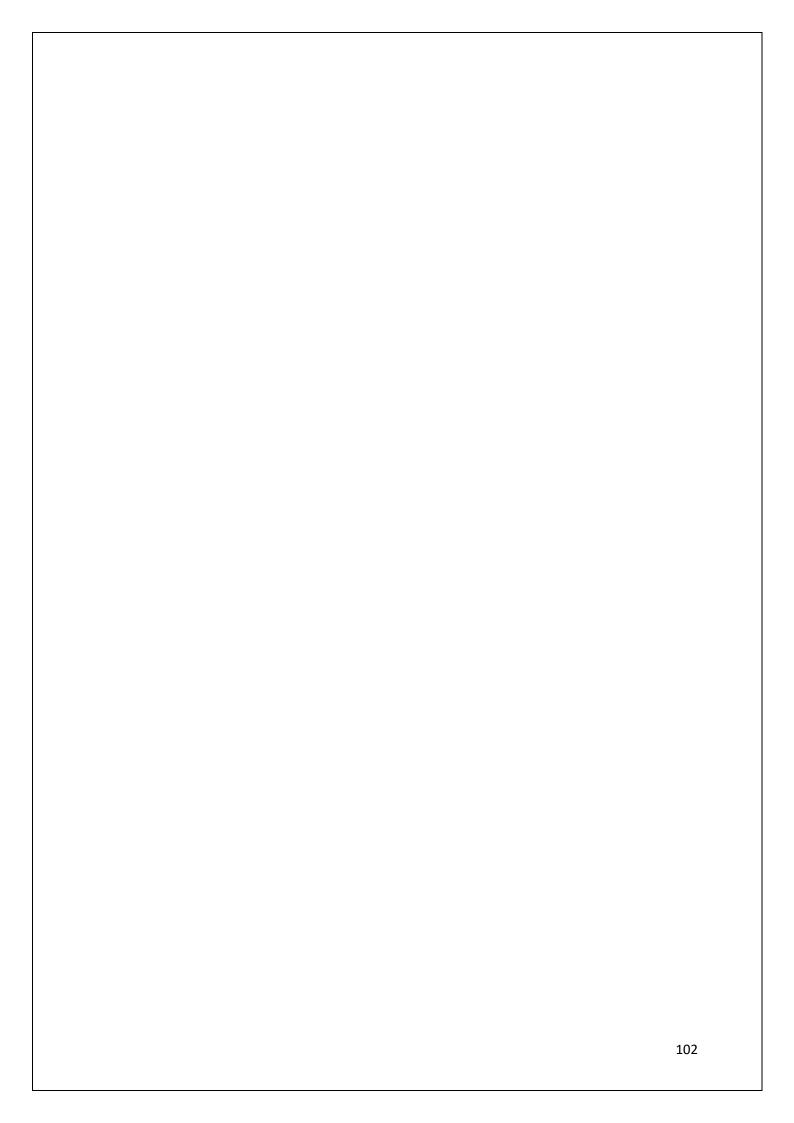
### **CODE:**

### **Default.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:ListBox ID="ListBox1" runat="server" Height="185px"</pre>
Width="121px"></asp:ListBox>
        <br />
    </div>
    >
        <asp:Button ID="Button1" runat="server" Text="Get Phone No" />
    >
         

        <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
    </form>
</body>
</html>
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
{
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label1.Text = "Your Postal Code is: " + ListBox1.SelectedValue;
    }
    protected void Page_Load(object sender, EventArgs e)
    {
        if (IsPostBack == false)
    }
}
```



#53003170057# #Dhruvesh Parekh#
Bank Address: Vile Parle
Bank City: Mumbai
Bank Branch Name: UPG
State: Maharashtra
ZIP Code: 123456
Insert Delete
Record Inserted Successfuly.
#53003170057# #Dhruvesh Parekh#
Bank Address: Vile Parle
Bank City: Mumbai
Bank Branch Name: UPG
State: Maharashtra
ZIP Code: 123456
Insert Delete
Record Deleted Successfuly.

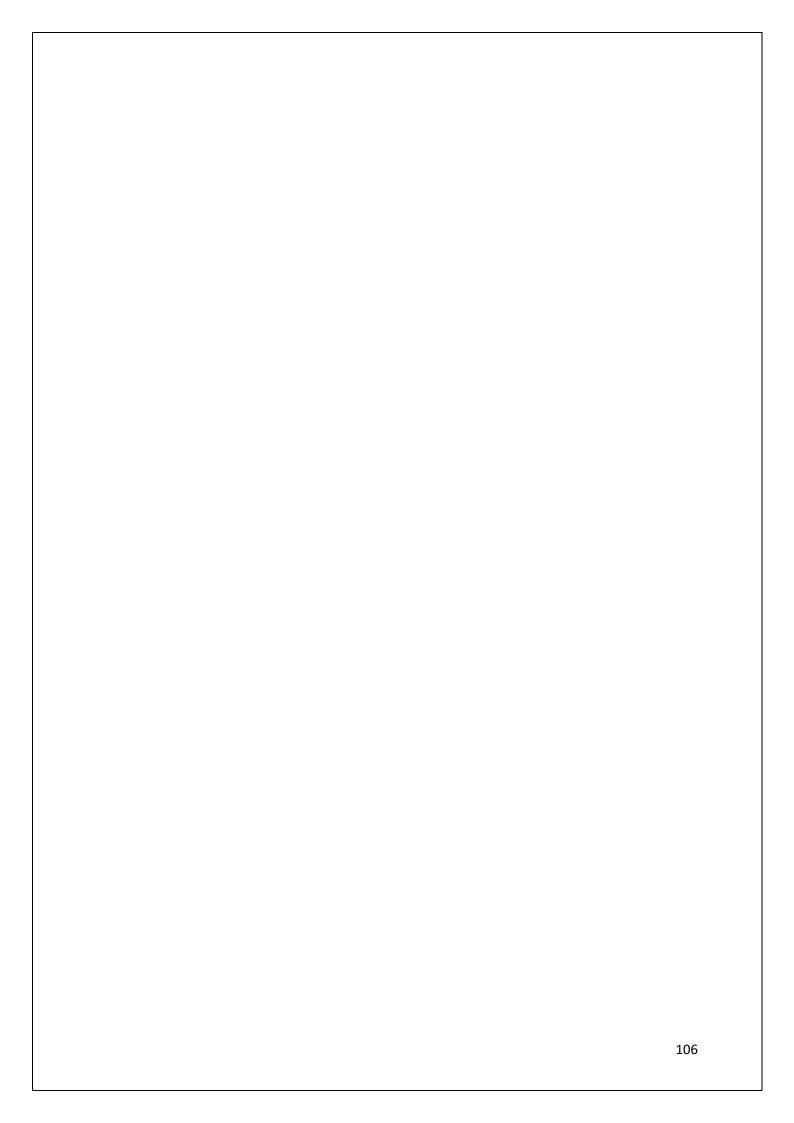
# 7C. Create a web application for inserting and deleting record from a database. (Using Execute-Non Query)

### **CODE:**

### **Default.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        #53003170057#<br />
        #Dhruvesh Parekh#<br />
        <br />
        Bank Address:
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <br />
        <br />
        Bank City:
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
        <br />
        Bank Branch Name:
        <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
        <br />
        <br />
        State:
        <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
        <br />
        <br />
        ZIP Code:
        <asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
        <br />
        <br />
        <asp:Button ID="Button1" runat="server" Text="Insert"</pre>
            onclick="Button1 Click" />
  
        <asp:Button ID="Button2" runat="server" Text="Delete"</pre>
            onclick="Button2_Click"/>
        <br />
        <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
    </div>
    </form>
</body>
</html>
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
    protected void Button1_Click(object sender, EventArgs e)
        string connStr =
ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
        SqlConnection con = new SqlConnection(connStr);
        string InsertQuery = "insert into BRANCH values(@ADDRESS, @CITY, @NAME,
@STATE,@ZIP_CODE)";
        SqlCommand cmd = new SqlCommand(InsertQuery, con);
        cmd.Parameters.AddWithValue("@ADDRESS", TextBox1.Text);
        cmd.Parameters.AddWithValue("@CITY", TextBox2.Text);
        cmd.Parameters.AddWithValue("@NAME", TextBox3.Text);
        cmd.Parameters.AddWithValue("@STATE", TextBox4.Text);
        cmd.Parameters.AddWithValue("@ZIP CODE", TextBox5.Text);
        con.Open();
        cmd.ExecuteNonQuery();
        Label1.Text = "Record Inserted Successfuly.";
        con.Close();
    }
   protected void Button2 Click(object sender, EventArgs e)
        string connStr =
ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
        SqlConnection con = new SqlConnection(connStr);
        string InsertQuery = "delete from branch where NAME=@NAME";
        SqlCommand cmd = new SqlCommand(InsertQuery, con);
        cmd.Parameters.AddWithValue("@NAME", TextBox1.Text);
        con.Open();
        cmd.ExecuteNonQuery();
        Label1.Text = "Record Deleted Successfuly.";
        con.Close();
    }
}
```



Dhruvesh ▼	
ID	2
fname	Dhruvesh
country	India
lname	Parekh
state	GOA

# 8A. Create a web application to demonstrate various uses and properties of SqlDataSource.

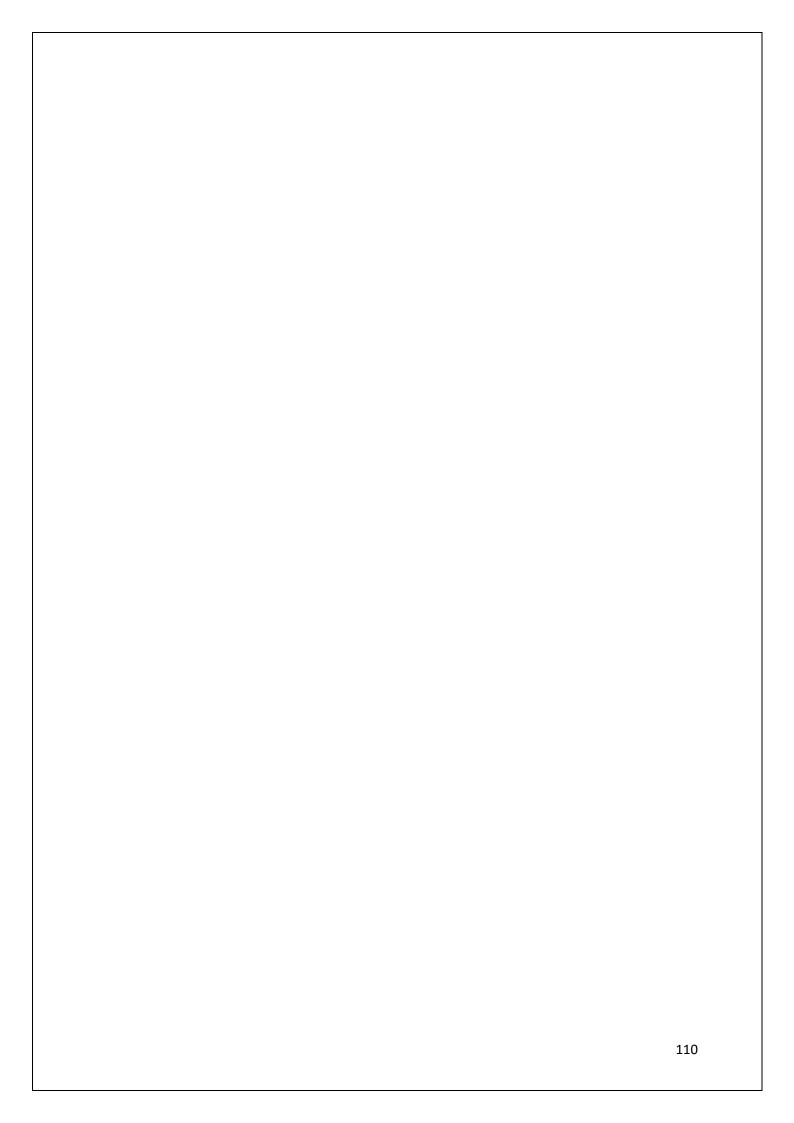
### CODE:

### **Default.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<asp:DropDownList ID="DropDownList1" runat="server"</pre>
DataSourceID="SqlDataSource1" DataTextField="name" DataValueField="name"
onselectedindexchanged="DropDownList1_SelectedIndexChanged"
AutoPostBack="True">
</asp:DropDownList>
<asp:SqlDataSource ID="SqlDataSource1" runat="server"</pre>
ConnectionString="Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\Database.mdf;Integrated
Security=True;User Instance=True"
SelectCommand="SELECT [name] FROM [test2]"
ProviderName="System.Data.SqlClient"></asp:SqlDataSource>
<br />
<asp:DetailsView ID="DetailsView1" runat="server" Height="50px" Width="125px"</pre>
AutoGenerateRows="False" DataSourceID="SqlDataSource3" >
<asp:BoundField DataField="id" HeaderText="id" SortExpression="id" />
<asp:BoundField DataField="name" HeaderText="name" SortExpression="name" />
<asp:BoundField DataField="country" HeaderText="country"</pre>
SortExpression="country" />
<asp:BoundField DataField="lname" HeaderText="lname" SortExpression="lname" />
<asp:BoundField DataField="state" HeaderText="state" SortExpression="state" />
</Fields>
</asp:DetailsView>
<asp:SqlDataSource ID="SqlDataSource3" runat="server"</pre>
ConnectionString="Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\Database.mdf;Integrated
Security=True;User Instance=True"
SelectCommand="SELECT * FROM [test2]"
ProviderName="System.Data.SqlClient"></asp:SqlDataSource>
</div>
</form>
</body>
</html>
```

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

```
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
{
   protected void Page_Load(object sender, EventArgs e)
{
   }
   protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
{
   SqlDataSource3.SelectCommand="select * from test2 where
   name='"+DropDownList1.SelectedValue +"'";
}
}
```



Dhruvesh ▼

### Details view

ID	2
fname	Dhruvesh
country	India
lname	Parekh
state	GOA

### Form view

ID	2
fname	Dhruvesh
country	India
lname	Parekh
state	GOA

# 8B. Create a web application to demonstrate data binding using DetailsView and FormView control.

#### CODE:

```
c%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<asp:DropDownList ID="DropDownList1" runat="server"</pre>
DataSourceID="SqlDataSource1" DataTextField="name" DataValueField="name"
onselectedindexchanged="DropDownList1_SelectedIndexChanged"
AutoPostBack="True">
</asp:DropDownList>
<asp:SqlDataSource ID="SqlDataSource1" runat="server"</pre>
ConnectionString="Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\Database.mdf;Integrated
Security=True;User Instance=True"
SelectCommand="SELECT [name] FROM [test2]"
ProviderName="System.Data.SqlClient"></asp:SqlDataSource>
<br />
<h3>DetailsView</h3>
<asp:DetailsView ID="DetailsView1" runat="server" Height="50px" Width="125px"</pre>
AutoGenerateRows="False" DataSourceID="SqlDataSource3" >
<asp:BoundField DataField="id" HeaderText="id" SortExpression="id" />
<asp:BoundField DataField="name" HeaderText="name" SortExpression="name" />
<asp:BoundField DataField="country" HeaderText="country"</pre>
SortExpression="country" />
<asp:BoundField DataField="lname" HeaderText="lname" SortExpression="lname" />
<asp:BoundField DataField="state" HeaderText="state" SortExpression="state" />
</Fields>
</asp:DetailsView>
<h3>FormView</h3>
<asp:FormView ID="FormView1" runat="server" Height="50px" Width="125px"</pre>
AutoGenerateRows="False" DataSourceID="SqlDataSource3" >
<ItemTemplate>
id
<%# Eval("id") %>
name
<%# Eval("name") %>
country
<%# Eval("country") %>
```

```
lname
<%# Eval("lname") %>
state
<%# Eval("state") %>
</ItemTemplate>
</asp:FormView>
<asp:SqlDataSource ID="SqlDataSource3" runat="server"</pre>
ConnectionString="Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\Database.mdf;Integrated
Security=True;User Instance=True"
SelectCommand="SELECT * FROM [test2]"
ProviderName="System.Data.SqlClient"></asp:SqlDataSource>
</div>
</form>
</body>
</html>
Default.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
   protected void Page_Load(object sender, EventArgs e)
   protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
       SqlDataSource3.SelectCommand = "select * from test2 where name='" +
DropDownList1.SelectedValue + "'";
```

}



В	utton	
id	name	lname
1	Rhitik	Wadhvana
2	Yash	Lathigara
3	Jay	Modi
4	Dhruvesh	Parekh
5	Ankit	Patel
6	Aayush	Shah
7	Ronak	Shah
8	Rishi	Thakker
9	Rutvik	Thakrar
10	Jigar	Vadhwana
11	Yash	Vora

# 8C. Create a web application to display using disconnected data access and data binding using GridView.

#### CODE:

#### **Default.aspx**

```
c%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<asp:Button ID="Button1" runat="server" Text="Button" onclick="Button1_Click" />
<asp:GridView ID="GridView1" runat="server">
</asp:GridView>
</div>
</form>
</body>
</html>
```

#### **Default.aspx.cs**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
    protected void Page Load(object sender, EventArgs e)
    protected void Button1_Click(object sender, EventArgs e)
        string connStr =
ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
        SqlConnection con = new SqlConnection(connStr);
        SqlCommand objCmd = new SqlCommand("select * from test2", con);
        SqlDataAdapter objDa = new SqlDataAdapter();
        DataSet objDs = new DataSet();
        objCmd.CommandType = CommandType.Text;
        objDa.SelectCommand = objCmd;
        objDa.Fill(objDs, "test2");
        GridView1.DataSource = objDs.Tables[0];
        GridView1.DataBind();
   }
}
```

	name	country	lname	state
1	Rhitik	India	Wadhvana	Maharashtra
2	Jay	India	Modi	Maharashtra
3	Yash	India	Lathigara	Maharashtra
4	Dhruvesh	India	Parekh	Maharashtra
<u>5</u>	Ankit	India	Pate1	Maharashtra
<u>6</u>	Aayush	India	Shah	Maharashtra
<u>7</u>	Ronak	India	Shah	Maharashtra
8	Rishi	India	Thakker	Maharashtra
9	Rutvik	India	Thakrar	Maharashtra
<u>10</u>	Jigar	India	Vadhwana	Maharashtra
<u>11</u>	Yash	India	Vora	Maharashtra
<u>12</u>	Rhitik	India	Wadhvana	Maharashtra
<u>13</u>	Raunak	India	Pandey	Maharashtra
<u>14</u>	Rajesh	India	Vishwakarma	Maharashtra

# <u>9A.</u> Create a web application to demonstrate use of GridView control template and GridView hyperlink.

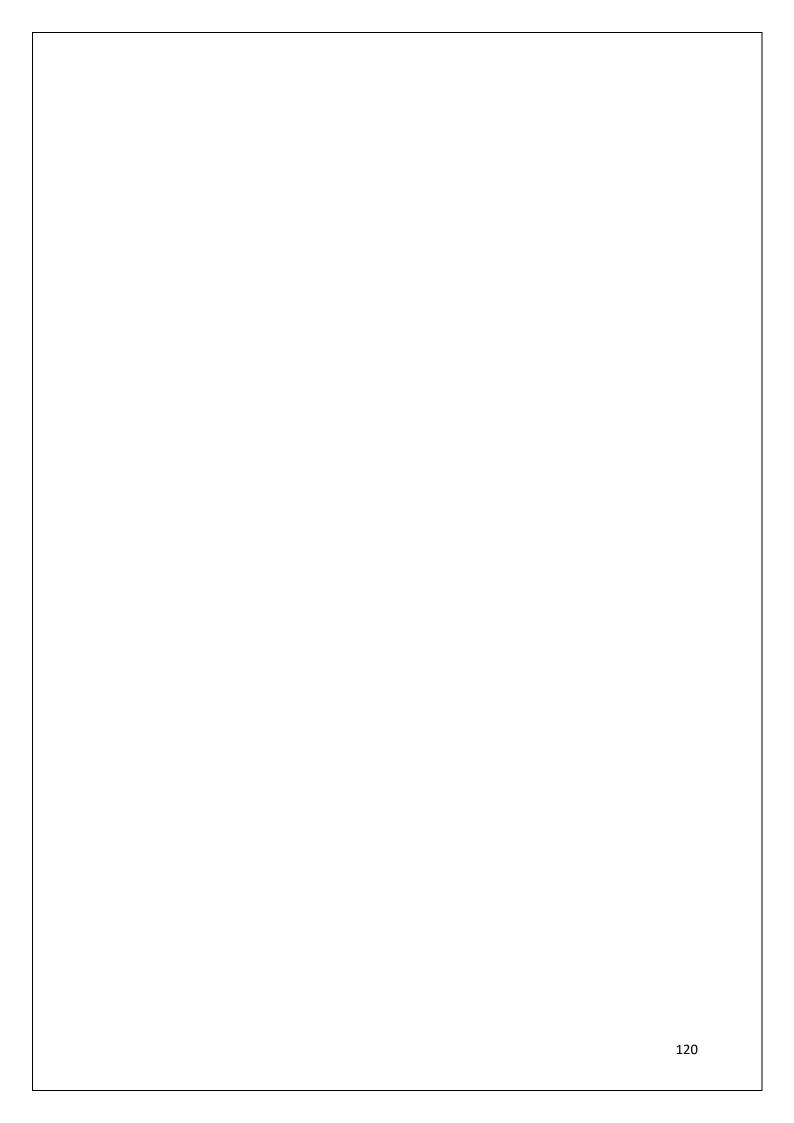
#### **CODE:**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"</pre>
        BackColor="White" BorderColor="#CC9966" BorderStyle="None" BorderWidth="1px"
        CellPadding="4" DataSourceID="SqlDataSource1">
            <asp:HyperLinkField DataNavigateUrlFields="name"</pre>
                DataNavigateUrlFormatString="~/Default2.aspx?name={0}"
DataTextField="id" />
            <asp:BoundField DataField="name" HeaderText="name" SortExpression="name"</pre>
/>
            <asp:BoundField DataField="country" HeaderText="country"</pre>
                SortExpression="country" />
            <asp:BoundField DataField="lname" HeaderText="lname"</pre>
SortExpression="lname" />
            <asp:BoundField DataField="state" HeaderText="state"</pre>
SortExpression="state" />
        <FooterStyle BackColor="#FFFFCC" ForeColor="#330099" />
        <HeaderStyle BackColor="#990000" Font-Bold="True" ForeColor="#FFFFCC" />
        <PagerStyle BackColor="#FFFFCC" ForeColor="#330099" HorizontalAlign="Center"</pre>
/>
        <RowStyle BackColor="White" ForeColor="#330099" />
        <SelectedRowStyle BackColor="#FFCC66" Font-Bold="True" ForeColor="#663399" />
        <SortedAscendingCellStyle BackColor="#FEFCEB" />
        <SortedAscendingHeaderStyle BackColor="#AF0101" />
        <SortedDescendingCellStyle BackColor="#F6F0C0" />
        <SortedDescendingHeaderStyle BackColor="#7E0000" />
    </asp:GridView>
    <asp:SqlDataSource ID="SqlDataSource1" runat="server"</pre>
        ConnectionString="
ConnectionStrings:ConnectionString %>"
        SelectCommand="SELECT * FROM [test2]"></asp:SqlDataSource>
        </div>
    </form>
</body>
</html>
```

### <u>Default.aspx.cs</u>

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

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
      GridView1.PageIndex = e.NewPageIndex;
      methodname();
    }
}
```



id	name	country	lname	state	Edit
1	Rhitik	India	Wadhvana	Maharashtra	Edit
2	Jay	India	Modi	Maharashtra	Edit
3	Yash	India	Lathigara	Maharashtra	Edit
4	Dhruvesh	India	Parekh	Maharashtra	Edit
5	Ankit	India	Pate1	Maharashtra	Edit
6	Aayush	India	Shah	Maharashtra	Edit
7	Ronak	India	Shah	Maharashtra	Edit
8	Rishi	India	Thakker	Maharashtra	Edit
9	Rutvik	India	Thakrar	Maharashtra	Edit
10	Jigar	India	Vadhwana	Maharashtra	Edit
11	Yash	India	Vora	Maharashtra	Edit
12	Rhitik	India	Wadhvana	Maharashtra	Edit
13	Raunak	India	Pandey	Maharashtra	Edit
14	Rajesh	India	Vishwakarma	Maharashtra	Edit

id	name	country	lname	state	Edit	t
1	Rhitik	India	Wadhvana	Maharashtra	Update	Cancel
2	Jay	India	Modi	Maharashtra	Edit	
3	Yash	India	Lathigara	Maharashtra	Edit	
4	Dhruvesh	India	Parekh	Maharashtra	Edit	
5	Ankit	India	Patel	Maharashtra	Edit	
6	Aayush	India	Shah	Maharashtra	Edit	
7	Ronak	India	Shah	Maharashtra	Edit	
8	Rishi	India	Thakker	Maharashtra	Edit	
9	Rutvik	India	Thakrar	Maharashtra	Edit	
10	Jigar	India	Vadhwana	Maharashtra	Edit	
11	Yash	India	Vora	Maharashtra	Edit	
12	Rhitik	India	Wadhvana	Maharashtra	Edit	
13	Raunak	India	Pandey	Maharashtra	Edit	
14	Rajesh	India	Vishwakarma	Maharashtra	Edit	

# <u>9B.</u> Create a web application to demonstrate use of GridView button column and GridView events.

#### CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"</pre>
        DataSourceID="SqlDataSource1">
            <asp:BoundField DataField="id" HeaderText="id" SortExpression="id" />
            <asp:BoundField DataField="name" HeaderText="name" SortExpression="name"</pre>
/>
            <asp:BoundField DataField="country" HeaderText="country"</pre>
                SortExpression="country" />
            <asp:BoundField DataField="lname" HeaderText="lname"</pre>
SortExpression="lname" />
            <asp:BoundField DataField="state" HeaderText="state"</pre>
SortExpression="state" />
            <asp:CommandField ButtonType="Button" HeaderText="Edit"</pre>
ShowEditButton="True"
                 ShowHeader="True" />
        </Columns>
    </asp:GridView>
    <asp:SqlDataSource ID="SqlDataSource1" runat="server"</pre>
        ConnectionString="
ConnectionStrings:ConnectionString %>"
        SelectCommand="SELECT * FROM [test2]"></asp:SqlDataSource>
    </form>
</body>
</html>
```

ID	Name	Country	
1	Rhitik Wadhyana	United States	
2	Yash Lathigara	India	
3	Jay Modi	France	
4	Dhruvesh Parekh	Russia	
5	Ankit Patel	United States	
1 <u>2 3</u>			

ID	Name	Country
6	Agravah Shah	India
7	Aayush Shah	
7	Ronak Shah	France
8	Rishi Thakker	Russia
9	Rutvik Thakrar	United States
10	Jigar Vadhwana	India
<u>1</u> 2 <u>3</u>		

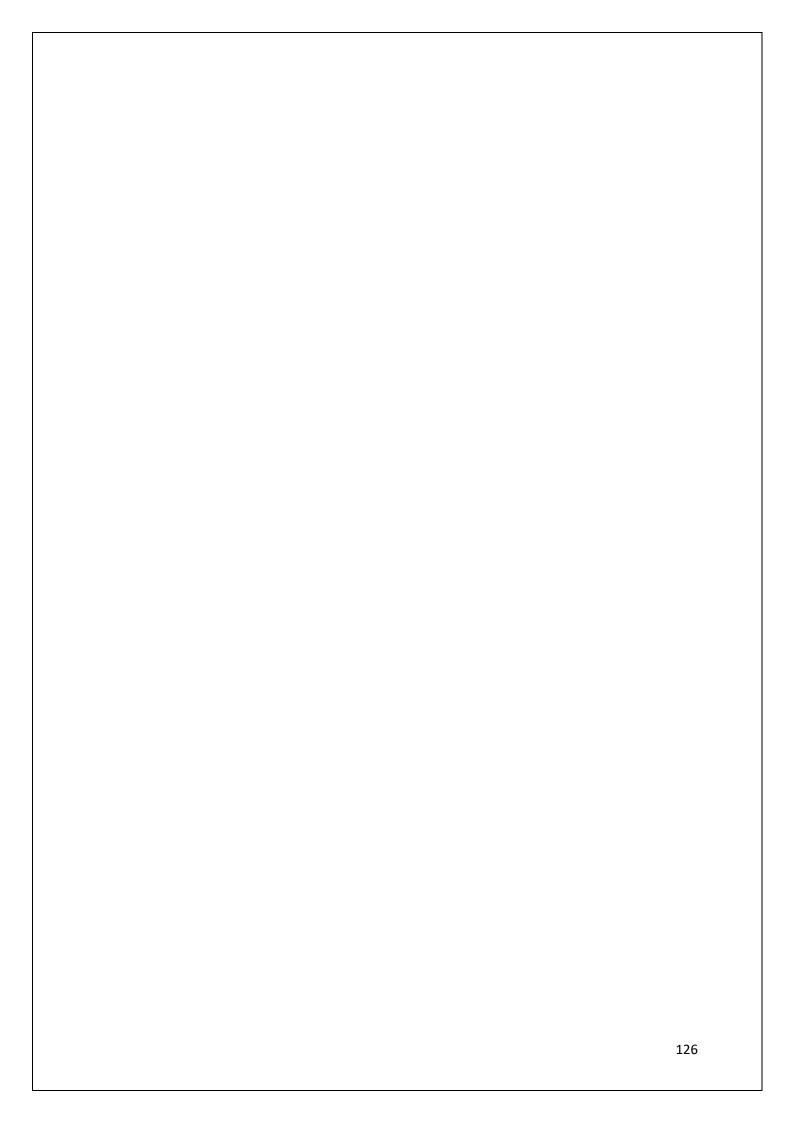
# <u>9C</u>. Create a web application to demonstrate use of GridView paging and creating own table format using GridView.

#### **CODE:**

```
c%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
id="headerTable">
TD
Name
Country
<!-- These are the actual data items -->
<!-- Bind to your specific properties i.e. Employees. -->
<asp:GridView ID="GridView1" runat="server" HeaderStyle-ForeColor="White"</pre>
AutoGenerateColumns="false" AllowPaging="True"
onpageindexchanging="GridView1_PageIndexChanging" PageSize="5">
<columns>
<asp:TemplateField>
<ItemTemplate>
 <asp:Label ID="lblid" runat="server" Text='</pre>
"Example of the style 
%>'></asp:Label>
 <asp:Label ID="lblName" runat="server"
Text='<%#Eval("Name") %>'></asp:Label>
 <asp:Label ID="Country" runat="server"
Text='<%#Eval("Country") %>'></asp:Label>
</ItemTemplate>
</asp:TemplateField>
</columns>
</asp:GridView>
</div>
</form>
</body>
</html>
```

#### **Default.aspx.cs**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
public partial class _Default : System.Web.UI.Page
      protected void Page_Load(object sender, EventArgs e)
             if (!this.IsPostBack)
                   methodname();
      public void methodname()
             DataTable dt = new DataTable();
             dt.Columns.AddRange(new DataColumn[3] { new DataColumn("Id", typeof(int)),
new DataColumn("Name", typeof(string)),
new DataColumn("Country", typeof(string)) });
            dt.Rows.Add(1, "Rhitik Wadhvana", "United States");
dt.Rows.Add(2, "Yash Lathigara", "India");
dt.Rows.Add(3, "Jay Modi", "France");
dt.Rows.Add(4, "Dhruvesh Parekh", "Russia");
            dt.Rows.Add(4, Dhruvesh Parekh, Russia);
dt.Rows.Add(5, "Ankit Patel", "United States");
dt.Rows.Add(6, "Aayush Shah", "India");
dt.Rows.Add(7, "Ronak Shah", "France");
dt.Rows.Add(8, "Rishi Thakker", "Russia");
dt.Rows.Add(9, "Rutvik Thakrar", "United States");
dt.Rows.Add(10, "Jigar Vadhwana", "India");
dt.Rows.Add(11, "Yash Vana", "Enance");
            dt.Rows.Add(11, "Yash Vora", "France");
dt.Rows.Add(12, "Raunak Pandey", "Russia");
dt.Rows.Add(11, "Rajesh Vishwakarma", "France");
             GridView1.DataSource = dt;
            GridView1.DataBind();
      protected void GridView1_PageIndexChanging(object sender, GridViewPageEventArgs e)
             GridView1.PageIndex = e.NewPageIndex;
             methodname();
}
```



Rhitik Wadhvana



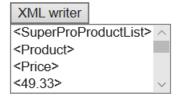
XML Reader

Data written Successfully



XML Reader

Data written Successfully



XML Reader

# <u>10A.</u> Create a web application to demonstrate reading and writing operation with XML.

#### **CODE:**

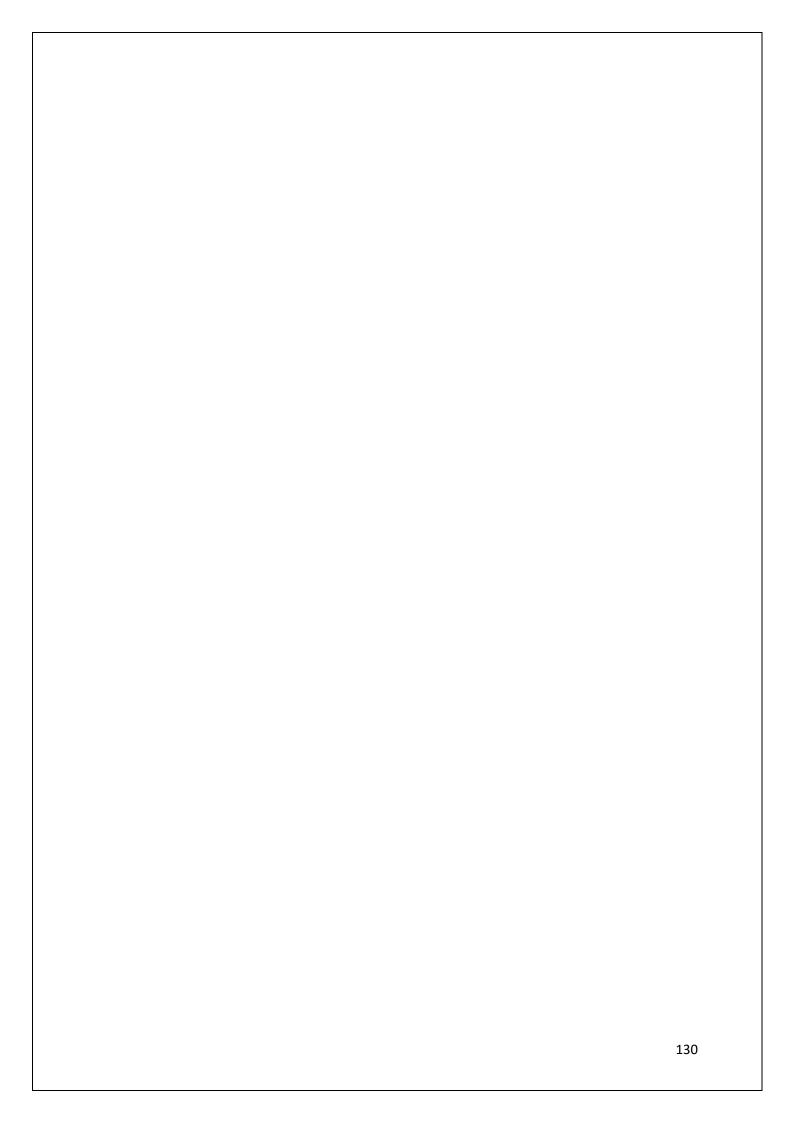
#### **Default.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
                                      <title></title> </head>
<body>
    <form id="form1" runat="server">
            <asp:Label ID="Label1" runat="server" Text="Rhitik Wadhvana"></asp:Label>
<br />
            <asp:Button ID="Button1" runat="server" Text="XML writer"</pre>
onclick="Button1_Click" />
        <br />
        <asp:ListBox ID="ListBox1" runat="server"></asp:ListBox>
                        <br />
                                       <br />
        <asp:Button ID="Button2" runat="server" Text="XML Reader"</pre>
onclick="Button2_Click" />
        </div>
    </form>
</body>
</html>
```

#### Default.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Xml;
public partial class _Default : System.Web.UI.Page
    protected void Page Load(object sender, EventArgs e)
    protected void Button1_Click(object sender, EventArgs e)
        String fs = "C:\\Users\\asus\\Documents\\Visual Studio
2010\\WebSites\\WebSite1\\XMLFile.xml";
        XmlTextWriter w = new XmlTextWriter(fs, null);
        w.WriteStartDocument();
        w.WriteStartElement("SuperProProductList");
        w.WriteComment("This file generated by the XmlTextWriter class.");
// Write the first product.
```

```
w.WriteStartElement("Product");
        w.WriteAttributeString("ID", "1");
w.WriteAttributeString("Name", "Chair");
        w.WriteStartElement("Price");
        w.WriteString("49.33");
        w.WriteEndElement();
        w.WriteEndElement();
        // Write the second product.
        w.WriteStartElement("Product");
        w.WriteAttributeString("ID", "2");
        w.WriteAttributeString("Name", "Car");
        w.WriteStartElement("Price");
        w.WriteString("43399.55");
        w.WriteEndElement();
        w.WriteEndElement();
        // Write the third product.
        w.WriteStartElement("Product");
        w.WriteAttributeString("ID", "3");
        w.WriteAttributeString("Name", "Fresh Fruit Basket");
        w.WriteStartElement("Price");
        w.WriteString("49.99");
        w.WriteEndElement();
        w.WriteEndElement();
        // Close the root element.
        w.WriteEndElement();
        w.WriteEndDocument();
        w.Close();
        Label1.Text = "Data written Successfully";
    protected void Button2_Click(object sender, EventArgs e)
        String fs = "C:\\Users\\asus\\Documents\\Visual Studio
2010\\WebSites\\WebSite1\\XMLFile.xml";
        XmlTextReader reader = new XmlTextReader(fs); while (reader.Read())
            switch (reader.NodeType)
                case XmlNodeType.Element: ListBox1.Items.Add("<" + reader.Name + ">");
break;
                case XmlNodeType.Text: ListBox1.Items.Add("<" + reader.Value + ">");
break;
                case XmlNodeType.EndElement: ListBox1.Items.Add("<" + reader.Name +</pre>
">"); break;
    }
}
```



### **Login Page**

Username: Rhitik
Password:

Remember me?

Log In

### Welcome Rhitik

# <u>10B.</u> Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties.

#### CODE:

#### **Default.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits=" Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
                                       <title></title>
                                                           </head>
<body>
   <form id="form1" runat="server">
   <h3>Login Page</h3>
   Username:
           <asp:TextBox ID="UserName" runat="server" />
           <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
ControlToValidate="UserName" Display="Dynamic" ErrorMessage="Cannot be empty."
runat="server" />
       Password:
           <asp:TextBox ID="UserPass" TextMode="Password" runat="server" />
           <asp:RequiredFieldValidator ID="RequiredFieldValidator2"
ControlToValidate="UserPass" ErrorMessage="Cannot be empty." runat="server" />
       Remember me?
           <asp:CheckBox ID="chkboxPersist" runat="server" />
       <asp:Button ID="Submit1" OnClick="Login_Click" Text="Log In" runat="server" />
   <asp:Label ID="Msg" ForeColor="red" runat="server" />
   </form>
</body>
</html>
```

#### **Default.aspx.cs**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.Security;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
```

```
}
protected void Login_Click(object sender, EventArgs e)
{
    if (FormsAuthentication.Authenticate(UserName.Text, UserPass.Text))
    {
        FormsAuthentication.RedirectFromLoginPage(UserName.Text, ChkboxPersist.Checked);
        Session["username"] = UserName.Text; Response.Redirect("Welcome.aspx");
    }
    else { Msg.Text = "Invalid User Name and/or Password"; }
}
```

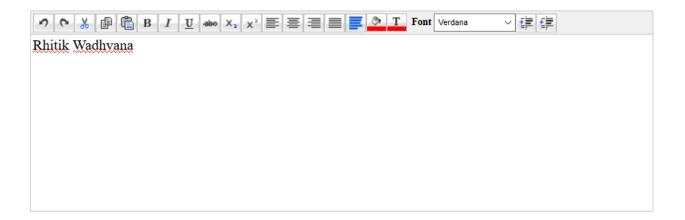
#### Web.config

```
<?xml version="1.0"?>
      For more information on how to configure your ASP.NET application, please visit
http://go.microsoft.com/fwlink/?LinkId=169433
<configuration>
  <appSettings>
    <add key="ValidationSettings:UnobtrusiveValidationMode" value="None" />
  </appSettings>
  <system.web>
    <compilation debug="false" targetFramework="4.0" />
    <authentication mode="Forms">
      <forms loginUrl="Default.aspx" defaultUrl="Welcome.aspx">
        <credentials passwordFormat="Clear">
          <user name="Jay" password="Jay" />
          <user name="Yash" password="Yash"/>
          <user name="Dhruvesh" password="Dhruvesh"/>
          <user name="Ankit" password="Ankit"/>
          <user name="Aayush" password="Aayush"/>
          <user name="Ronak" password="Ronak"/>
          <user name="Rishi" password="Rishi"/>
          <user name="Rutvik" password="Rutvik"/>
          <user name="Jigar" password="Jigar"/>
          <user name="Rhitik" password="Rhitik"/>
        </credentials>
      </forms>
    </authentication>
    <authorization>
      <deny users="?"/>
    </authorization>
  </system.web>
</configuration>
```

#### Welcome.aspx.cs

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

public partial class Welcome : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        Response.Write("Welcome " + Session["username"]);
    }
}
```





# <u>10C(i).</u> Create a web application to demonstrate use of various Ajax controls.

#### **CODE:**

```
c%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits=" Default" %>
<%@ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit"</pre>
TagPrefix="ajaxToolkit" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
                                     <title></title> </head>
<body>
<form id="form1" runat="server">
<div>
<asp:ScriptManager runat="server" ID="MainScriptManager" />
<asp:TextBox ID="TextBox1" runat="server" Height="210px" TextMode="MultiLine"</pre>
Width="683px"></asp:TextBox>
<ajaxToolkit:HtmlEditorExtender ID="HtmlEditorExtender1" runat="server"</pre>
EnableSanitization="False" TargetControlID="TextBox1">
<Toolbar>
<ajaxToolkit:Undo />
<ajaxToolkit:Redo />
<aiaxToolkit:Cut />
<ajaxToolkit:Copy />
<ajaxToolkit:Paste />
<aiaxToolkit:Bold />
<aiaxToolkit:Italic />
<ajaxToolkit:Underline />
<ajaxToolkit:StrikeThrough />
<ajaxToolkit:Subscript />
<ajaxToolkit:Superscript />
<ajaxToolkit:JustifyLeft />
<ajaxToolkit:JustifyCenter />
<ajaxToolkit:JustifyRight />
<ajaxToolkit:JustifyFull />
<ajaxToolkit:SelectAll />
<ajaxToolkit:BackgroundColorSelector />
<ajaxToolkit:ForeColorSelector />
<ajaxToolkit:FontNameSelector />
<ajaxToolkit:Indent />
<ajaxToolkit:Outdent />
</Toolbar>
</ajaxToolkit:HtmlEditorExtender>
</div>
</form>
</body>
</html>
```



Rhitik Wadhvana

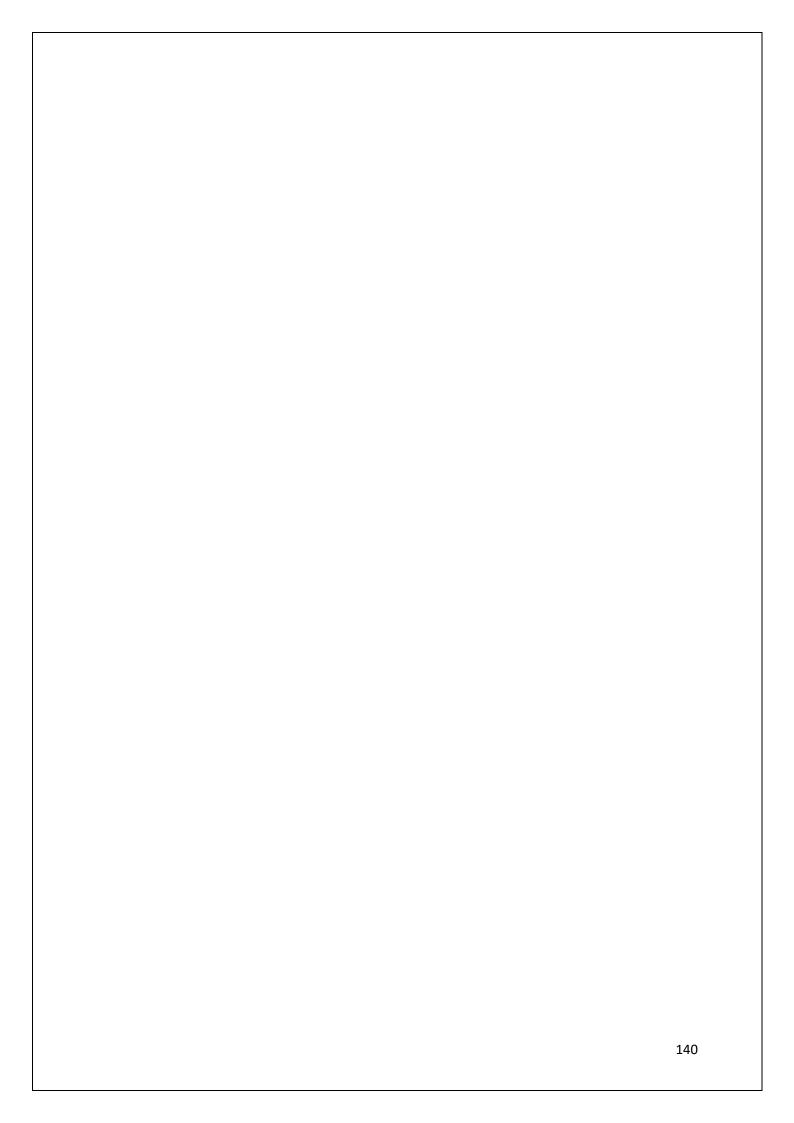
## <u>10C(ii).</u> Create a web application to demonstrate dynamic AdRotator.

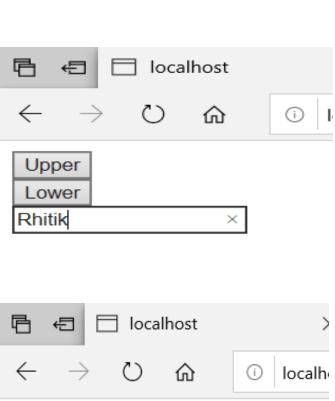
#### CODE:

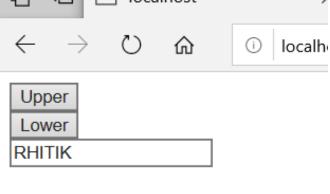
#### **Default.aspx**

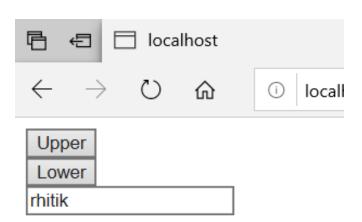
```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"</pre>
Inherits="Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
                                     <title></title> </head>
<body>
<form id="form1" runat="server">
<div>
<asp:ScriptManager ID="ScriptManager1" runat="server">
                                                           </asp:ScriptManager>
<asp:Timer ID="Timer1" runat="server" Interval="2000">
                                                          </asp:Timer>
<asp:UpdatePanel ID="UpdatePanel1" runat="server">
<Triggers>
<asp:AsyncPostBackTrigger ControlID="Timer1" EventName="Tick" />
</Triggers>
<ContentTemplate>
<asp:AdRotator ID="AdRotator1" runat="server" DataSourceID="XmlDataSource1"</pre>
Height="200px" Width="200px" />
<asp:XmlDataSource ID="XmlDataSource1" runat="server" DataFile="~/XMLFile.xml">
</asp:XmlDataSource>
    <br />
    <br />
    <asp:Label ID="Label1" runat="server" Text="Rhitik Wadhvana"></asp:Label>
</ContentTemplate>
</asp:UpdatePanel>
</div>
</form>
</body>
</html>
```

#### XMLFile.xml









### **Practical No.11**

#### A. Write a program to create and use DLL.

#### Code:

#### AWPClassLib.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace AWPClassLib
{
public class AWP
public string UpperConvert(string text)
{
return text.ToUpper();
}
public string LowerConvert(string text)
{
return text.ToLower();
}
}
}
```

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="_Default"
%>
<!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></title></title></title></title></tibe>
```

```
using AWPClassLib;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        protected void Button1_Click(object sender, EventArgs e)
        {
            AWP c1 = new AWP();
            TextBox1.Text = c1.UpperConvert(TextBox1.Text);
        }
        protected void Button2_Click(object sender, EventArgs e)
        { AWP c1 = new AWP();
            TextBox1.Text = c1.LowerConvert(TextBox1.Text);
        }
}
```

