Practical No. 01

Working with basic C# and ASP .NET

Aim:

a.) Create an application that obtains four int values from the user and displays the product.

b.) Create an application to demonstrate string operations.

c.) 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.

d.) Create an application to demonstrate following operations

i. Generate Fibonacci series. **ii.** Test for prime numbers.

iii. Test for vowels. **iv.** Use of foreach loop with arrays **v.** Reverse a number and find the sum of digits of a number.

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Class: T.Y.B.Sc.IT

Sub: Advance web programming

Grade:

Sign:

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Aim:

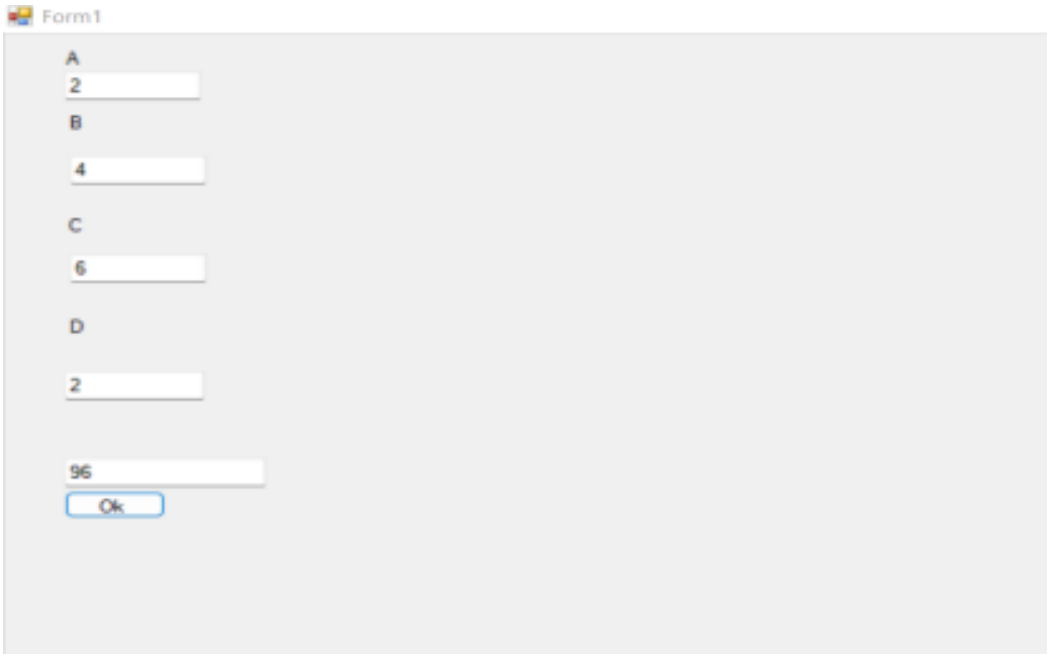
a.) Create an application that obtains four int values from the user and displays the product

Code:

```
using System;
namespace Practicalno1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            int A, B, C, D, s;

            A = int.Parse(textBox1.Text);
            B = int.Parse(textBox2.Text);
            C = int.Parse(textBox3.Text);
            D = int.Parse(textBox4.Text);
            s = A * B * C * D;

            textBox5.Text = s.ToString();
        }

        private void label1_Click(object sender, EventArgs e)
        {
```

```
    }
  }
}
```

Output:



Aim:

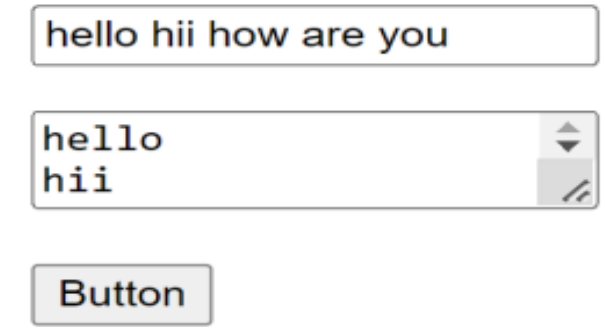
b.) Create an application to demonstrate string operations.

Code:

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

namespace practical2b.Properties
{
    public partial class WebForm1 : System.Web.UI.Page
```

```
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            String str1;
            str1= TextBox1.Text;
            string[] words= str1.Split(' ');
            for (int i = 0; i < words.Length; i++)
            {
                TextBox2.Text = TextBox2.Text + words[i] + "\r\n" ;
            }
        }
    }
}
```

Output:



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Aim:

c.) 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.

Code:

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

namespace practical 1c
{
   struct student
   {
      public string name, id, cname, dob;
   }
   public partial class WebForm1 : System.Web.UI.Page
   {
      static student[] s = new student[3];
      static int i;

      protected void Page_Load(object sender, EventArgs e)
      {
         Response.Write("i=" + i);
         s[i].id = TextBox1.Text;
         s[i].name = TextBox2.Text;
         s[i].cname = TextBox3.Text;
```

```
        s[i].dob = TextBox4.Text;

        i++;

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        for (int y = 0; y < i; y++)
        {
            Response.Write("i=" + y + "<br> ");
            Response.Write("student id: " + s[y].id + "<br>");
            Response.Write("Name: " + s[y].name + "<br>");
            Response.Write("course Name: " + s[y].cname + "<br>");
            Response.Write("Date Of Birth: " + s[y].dob + "<br>");

        }

    }
  }
}
```

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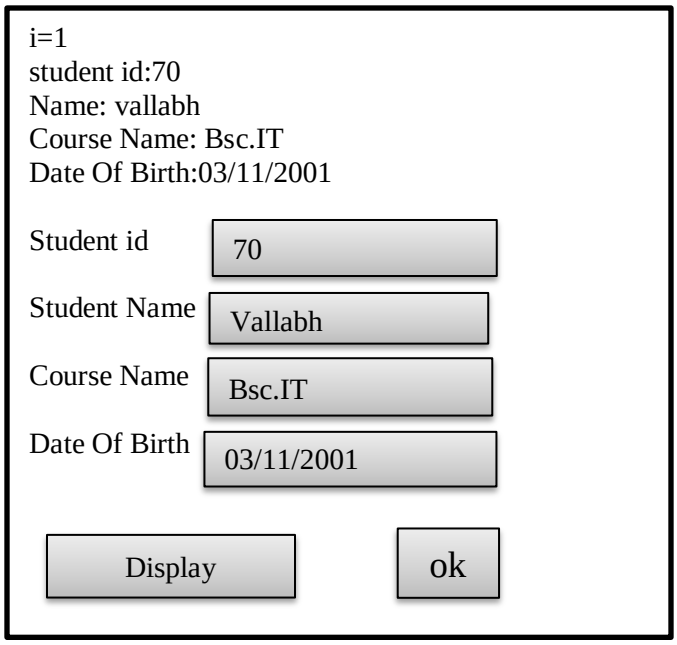
Output:



Aim:

d.) Create an application to demonstrate following operations

i. Generate Fibonacci series. ii. Test for prime numbers.

iii. Test for vowels. iv. Use of foreach loop with arrays v. Reverse a number and find the sum of digits of a number.

i. Generate Fibonacci series.

Code:

```
using System;
namespace pracno1d
{
   public partial class WebForm1 : System.Web.UI.Page
```

```
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            int f1 = 0, f2 = 1, f3, n, i;
            n = int.Parse(TextBox1.Text);
            i = 0;
            Response.Write("Fibonacci series");
            Response.Write(f1 + "\t" + f2);
            while (i <= n)
            {
                f3 = f1 + f2;
                Response.Write("\t" + f3);
                f1 = f2; f2 = f3;
                i++;

            }
        }
    }
}
```

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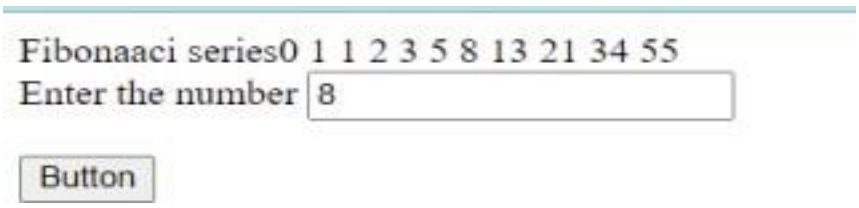
Output:



ii. Test for prime numbers.

Code:

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

namespace pracno1d.Properties
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button2_Click(object sender, EventArgs e)
      {
         int n, i;
```

```
        n = int.Parse(TextBox1.Text);
        for(i=2; i<=n-1; i++)
        {
           if ((n % i) == 0)
              break;

        }
        if (n == 1)
           Label2.Text = n + "is neither prime nor composite";
        else if (i < n - 1)
           Label2.Text = n + "is not prime number";
        else
           Label2.Text = n + "is prime number";
     }
  }
}
```

Output:

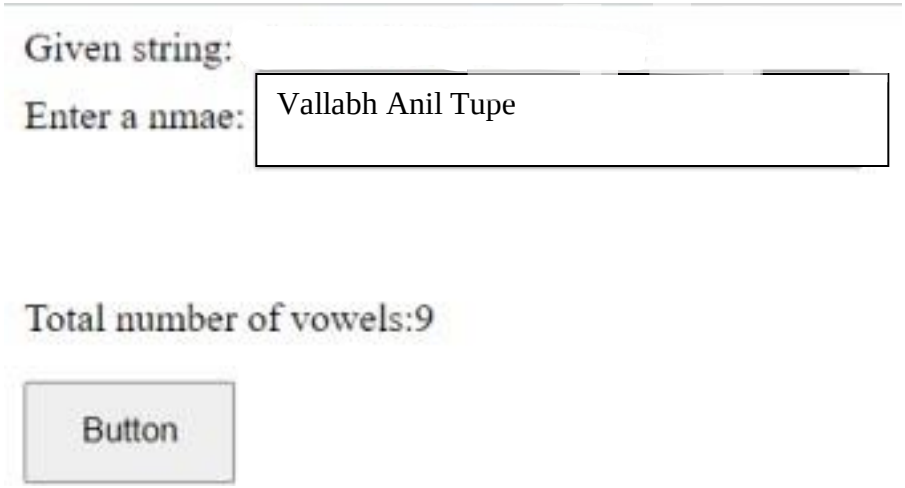
iii. Test for vowels.

Code:

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

namespace pracno1d.Properties
{
   public partial class WebForm2 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         string ch;
         int count = 0;
         ch = TextBox1.Text;
         for (int i = 0; i < ch.Length; i++)
         {
            if ((ch.Substring(i, 1) == "a") || (ch.Substring(i, 1) == "e") || (ch.Substring(i, 1) == "i")
|| (ch.Substring(i, 1) == "o") ||
(ch.Substring(i, 1) == "u"))
            {
```

```
                count++;
              }
            }
            Response.Write("Given string:" + ch);
            Label2.Text = "Total number of vowels:" + count;
        }
    }
}
```

Output:



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iv. Use of foreach loop with arrays

Code:

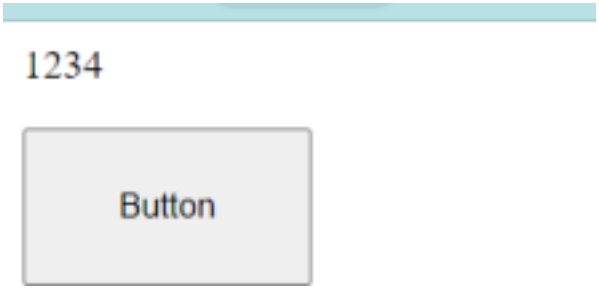
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace pracno1d.Properties
{
   public partial class WebForm3 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         int[] a = { 1, 2, 3, 4 };
         foreach (int i in a)
            Response.Write(i);
      }
   }
}
```

Output:



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

Code:

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

namespace pracno1d
{
   public partial class WebForm2 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         int n, m, r = 0, d, sum = 0;
         n = int.Parse(TextBox1.Text);
```

```
        m = n;
        while(n>0)
        {
           d = n % 10;
           r = r * 10 + d;
           sum = sum + d;
           n = n / 10;
        }
        Label2.Text = "Reverse of" + m + "=" + r + "<br>";
        Label3.Text = "sum of its digits:" + sum;
      }
   }
}
```

Output:

Practical no.02

Working with Object Oriented C# and ASP .NET

Aim:

a.) Create simple application to perform following operations

i. Finding factorial Value **ii.** Money Conversion

iii. Quadratic Equation **iv.** Temperature Conversion

b.) Create simple application to demonstrate use of following concepts

i. Function Overloading **ii.** Inheritance (all types)

iii. Constructor overloading **iv.** Interfaces

c.) Create simple application to demonstrate use of following concepts

i. Using Delegates and events **ii.** Exception handling

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Aim:

a.) Create simple application to perform following operations

i. Finding factorial Value ii. Money Conversion iii. Quadratic Equation iv. Temperature Conversion

i. Finding factorial Value

Code:

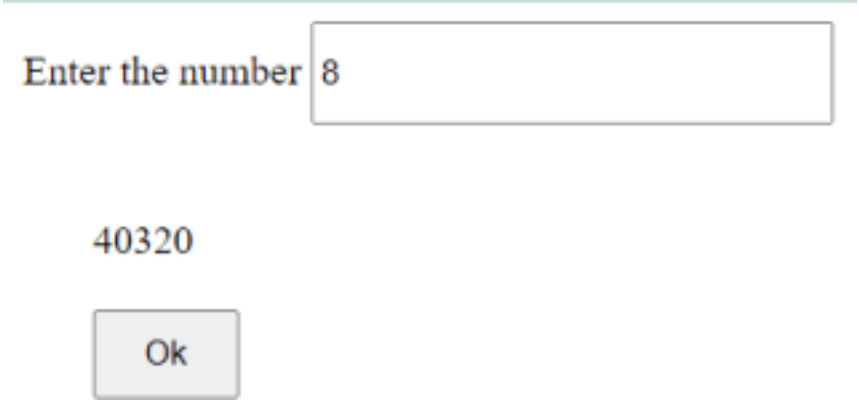
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class fact
{
   public int n, f;
   public fact()
   {
      f = 1;

   }
   public void cal()
   {
      int i;
      for(i=1; i<=n; i++)
      { f = f * i;
```

```
        }
    }
}
namespace practical2a1.Properties
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void Button1_Click(object sender, EventArgs
        e) {
            fact f1 = new fact();
            f1.n = int.Parse(TextBox1.Text);
            f1.cal();
            Label2.Text = f1.f.ToString();
        }
    }
}
```

Output:



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ii. Money Conversion

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public class Class1
{
   public double r, e, d;
   public Class1()
   {
      r = 0;
      e = 0;
      d = 0;
   }
   public void convertdtor()
   {
      r = d * 78;
   }
   public void convertetor()
   {
      r = e * 80;
   }
   public void convertrtod()
   {
      d = r / 78;
```

```
    }
    public void convertrtoe()
    {
        e = r / 80;
    }
}
namespace practical2a1
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        Class1 f1;
        protected void Page_Load(object sender, EventArgs e)
        {
            f1 = new Class1();
        }

        protected void RadioButton1_CheckedChanged(object sender, EventArgs
        e) {
            if (RadioButton1.Checked == true) ;
            {
                f1.d = Convert.ToInt16(TextBox1.Text);
                f1.convertdtor();
                Response.Write(f1.d + "Dollar" + "=Rs" + f1.r);

            }
        }

        protected void RadioButton2_CheckedChanged(object sender, EventArgs
        e) {
```

```
    if (RadioButton2.Checked == true) ;
    {
        f1.d = Convert.ToInt16(TextBox1.Text);
        f1.convertetor();
        Response.Write(f1.r + "Rupee" + "=$" + f1.d);

    }
}

protected void RadioButton3_CheckedChanged(object sender, EventArgs
e) {
    if (RadioButton3.Checked == true) ;
    {
        f1.d = Convert.ToInt16(TextBox1.Text);
        f1.convertrtod();
        Response.Write(f1.e + "Euro" + "=Rs." + f1.r);

    }
}

protected void RadioButton4_CheckedChanged(object sender, EventArgs
e) {
    if (RadioButton4.Checked == true) ;
    {
        f1.d = Convert.ToInt16(TextBox1.Text);
        f1.convertrtoe();
        Response.Write(f1.r + "=Rs to Euro" + f1.e);

    }
```

```
    }
  }
}
```

Output:

iii. Quadratic Equation

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class Quadraticroots
{
   public double a, b, c, r1, r2;
public double compute()
   {
      double d1;
      d1 = b * b - 4 * a * c;
      if(d1 == 0)
      {
         r1 = r2 = (-b) / (2 * a);
         return d1;
```

```
        }
        else if (d1 > 0)
        {
            r1 = (-b + Math.Sqrt(d1)) / (2 * a);
            return d1;
        }
        else
        {
            r1 = (-b) / (2 * a);
            r2= Math.Sqrt(-d1) / (2 * a);
            return d1;
        }


    }
}
namespace practical2a1.Properties
{
    public partial class WebForm2 :
    System.Web.UI.Page {
        Quadraticroots q;
        protected void Page_Load(object sender, EventArgs
        e) {
            q= new Quadraticroots();
        }

        protected void Button1_Click(object sender, EventArgs
        e) {
            q.a = Convert.ToInt16(TextBox1.Text);
```

```
        q.b = Convert.ToInt16(TextBox2.Text);
        q.c = Convert.ToInt16(TextBox3.Text);
        double d = q.compute();
        if(d==0)
        {
           Response.Write("\n Roots are Real and Equal
        <br>"); Response.Write("First and Second Root is:"+
        q.r1); }
        else if(d < 0)
        {
           Response.Write("\n Roots are Real and Distinct
        <br>"); Response.Write("\nFirst Root is:" + q.r1 +
        "<br>"); Response.Write("\nSecond Root is:" + q.r2 +
        "<br>"); }
        else
        {
           Response.Write("\n Roots are Real and
           Imaginary<br>"); Response.Write("\nFirst Root is:" +
           q.r1 + "<br>"); Response.Write("\nSecond Root is:" +
           q.r2 + "<br>");
        }
      }
   }
}
```

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Output:

iv.Temperature Conversion

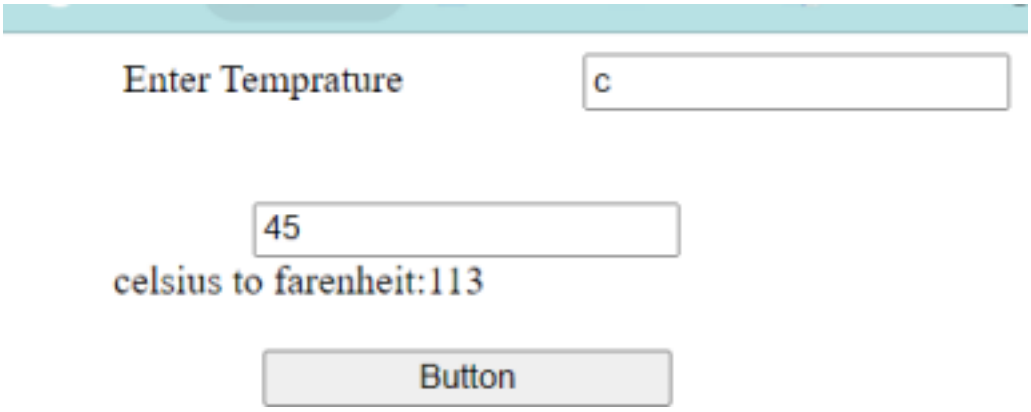
Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class converttemp
{
   public float celsius, faren;

   public converttemp()
   {
      celsius = 0;
      faren = 0;
   }
   public void converttofaren()
   {
      faren = ((celsius * 9.0f / 5.0f) + 32.0f);
   }
   public void converttocel()
   {
```

```
        celsius = (faren - 32) * (5.0f / 9.0f);
    }
}
namespace practical2a1
{
    public partial class WebForm2 :
    System.Web.UI.Page {
        converttemp c;
        protected void Page_Load(object sender, EventArgs
        e) {
            c = new converttemp();
        }

        protected void Button1_Click(object sender, EventArgs
        e) {
            char ch;
            ch = Convert.ToChar(TextBox1.Text);
            if (ch == 'c')
            {
                c.celsius = float.Parse(TextBox2.Text);
                c.converttofaren();
                Label2.Text = "celsius to farenheit:" + c.faren;
            }
            else
            {
                c.celsius = float.Parse(TextBox1.Text);
                c.converttocel();
                Label2.Text = "farenheit to celsius:" +
            c.celsius; }
```

```
    }
  }
}
```

Output:



Aim:

b.) Create simple application to demonstrate use of following concepts

i. Function Overloading ii. Inheritance (all types)

iii. Constructor overloading iv. Interfaces

i. Function Overloading

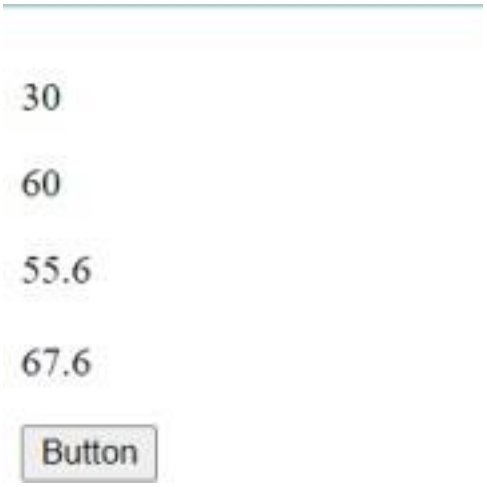
Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class overloding
{
```

```
    public int sum(int a, int b)
    {
        int x;
        return x = a + b;
    }
    public int sum(int a , int b , int c)
    {
        int y;
        return y = a + b + c;
    }
    public float sum(float a , float b)
    {
        float u;
        return u = a + b;
    }
    public float sum(float a, float b, float c)
    {
        float v;
        return v = a + b + c;
    }
}
namespace prac2b
{
    public partial class WebForm1 : System.Web.UI.Page
```

```
    {
        overloding o;
        protected void Page_Load(object sender, EventArgs e)
        {
            o = new overloding();
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Label1.Text = Convert.ToString(o.sum(10, 20));
            Label2.Text = Convert.ToString(o.sum(10, 20, 30));
        Label3.Text = Convert.ToString(o.sum(23.1f, 32.5f));
        Label4.Text = Convert.ToString(o.sum(12.0f , 23.1f, 32.5f)); }
    }
}
```

Output:



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ii. Inheritance (all types)

1.SingleLevel inheritance

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using
System.Web.UI.WebControls;
public class basec
{
   public int d;

   public string basemethod()
   {
      string p = "This a base class
      method"; return p;
   }

}
public class derived : basec
{
   public string derivedmethod()
   {
      string s = "This derivedclass method";
      return s;
   }
}
```

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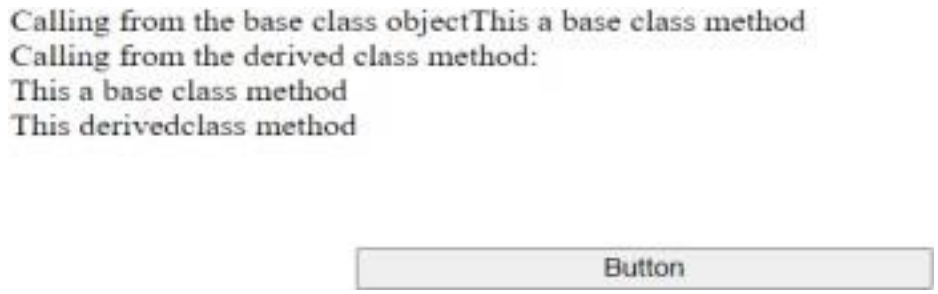
```
namespace prac2b
{
   public partial class WebForm2 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         basec b = new basec();
         derived d = new derived();
         Response.Write("Calling from the base class object" + b.basemethod());
         Response.Write("<br> Calling from the derived class method:<br>" +
         d.basemethod()); Response.Write("<br>" + d.derivedmethod());


      }
   }
}
```

Output:



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2.Multilevel inheritance

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class A
{
   public string show()
   {
      return ("First base class");
   }
}
class B : A
{
   public string display()
   {
      return ("second base class");
   }
}
class C : B
{
   public string show1()
   {
      return ("child class");
   }
```

```
}
namespace prac2b
{
    public partial class WebForm3 :
    System.Web.UI.Page {

        protected void Page_Load(object sender, EventArgs
        e) {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            C obj = new C();
            Response.Write(obj.show() + "<br>");
            Response.Write(obj.display() + "<br>");
            Response.Write(obj.show1() + "<br>");
        }
    }
}
```

Output:

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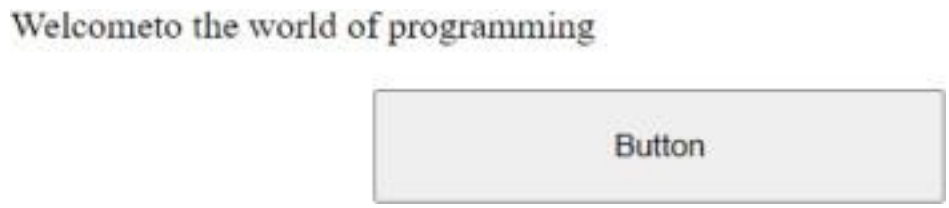
3.Hierarchical Inheritance

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class D
{
public string Show()
{
return ("Welcome");
}
}

class E : D

{

   public string Display()

   {

      return ("to the world");

   }

}

class F : D

{

   public string Show1()

   {

      return(" of programming");
```

```
    }

}
namespace prac2b

{

   public partial class WebForm4 :
    System.Web.UI.Page {
       protected void Page_Load(object sender, EventArgs
       e) {



       }



       protected void Button1_Click(object sender, EventArgs
       e) {
          F d1 = new F();

          E e1 = new E();

          string s = ""; s +=

              d1.Show(); s +=

              e1.Display(); s +=

              d1.Show1();

          Label1.Text = s;



       }

    }

}
```

Output:



iii. Constructor overloading

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class marksheet
{
   public float m1, m2, m3;
   string name;
   public marksheet()
   {
      m1 = 20;
      m2 = 40;
      m3 = 40;
   }
   public marksheet (float ms)
   {
      m1= ms;
   }
   public marksheet(float ms1 , float ms2)
   {
      m1= ms1;
      m2= ms2;
   }
   public marksheet(float ms1, float ms2, float
   ms3) {
      m1=ms1;
      m2=ms2;
      m3=ms3;
```

```
    }
    public float tot()
    {
        float t = m1 + m2 + m3;
        return t;
    }
}
namespace prac2b
{
    public partial class WebForm5 :
    System.Web.UI.Page {
        protected void Page_Load(object sender, EventArgs
        e) {

        }

        protected void Button1_Click(object sender, EventArgs
        e) {
            marksheet a = new marksheet();
            marksheet b = new marksheet(90);
            marksheet c = new marksheet(88, 60);
            marksheet d = new marksheet(70, 90, 55);
            Response.Write("in marksheet 1:");
            Response.Write(a.tot() + "<br>");
            Response.Write("in marksheet 2:");
            Response.Write(b.tot() + "<br>");
            Response.Write("in marksheet 3:");
            Response.Write(c.tot() + "<br>");
            Response.Write("in marksheet 4:");
            Response.Write(d.tot() + "<br>");

        }
    }
}
```

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Output:

```
in marksheet 1:100
in marksheet 2:90
in marksheet 3:148
in marksheet 4:215
```

iv. Interfaces

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class shape
{
   public int side;

   public void setside(int s)
   { side = s;
   }
}
public interface cost
{
   int getCost(int area);
}
class square : shape, cost
{
   public int getArea()
   {
      return (side * side);
   }
   public int getCost(int area)
```

```
    {
        return (area * 10);
    }

}
namespace prac2b
{
    public partial class WebForm6 :
    System.Web.UI.Page {
        protected void Page_Load(object sender, EventArgs
        e) {

        }

        protected void Button1_Click(object sender, EventArgs
        e) {
            square sq = new square();
            int area;
            sq.setside(15);
            area = sq.getArea();
            Label1.Text = "Area:" + area;
            int c = sq.getCost(area);
            Label2.Text = "cost is Rs:" + c;
        }
    }
}
```

Output:

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Aim:

c.) Create a simple application to demonstrate use of following concepts i. Using Delegates and events ii. Exception handling

i. Using Delegates and events

Code:

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

namespace practical2c1
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      public delegate void simpledelegate();

      public void callingfunction()
      {
         Response.Write("First function called.....<br>");
      }
      public void secfunction()
      {
         Response.Write("Second function called. ..... <br>");
      }
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         simpledelegate sd = new simpledelegate(callingfunction);
         sd();
         sd += new simpledelegate(secfunction);
         sd();
      }
```

```
    }
}
```

Output:

ii. Exception handling

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
class negativeException : Exception
{
    public negativeException(string msg): base(msg)
    {

    }
}
namespace practical2c1
{
    public partial class WebForm2 :
    System.Web.UI.Page {
        protected void Page_Load(object sender, EventArgs
        e) {

        }

        protected void Button1_Click(object sender, EventArgs
```

```
        e) {
            int num;
            try
            {
                num = int.Parse(TextBox1.Text);
                if (num < 0)
                    throw new negativeException("Negative Number");
                else
                    Response.Write("Positive Number");
            }
            catch(negativeException en)
            {
                Response.Write(en.Message);
            }
        }
    }
}
```

Output:

Practical N0. 03

Working with Web Forms and Controls

Aim:

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

b.) 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

c.) Demonstrate the use of Treeview control perform following operations.

a) Treeview control and datalist b) Treeview operations

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Roll No:70

Class: T.Y.B.Sc.IT

Sub: Advance web programming

Grade:

Sign:

Name: Vallabh Anil Tupe

Roll no: 70

Aim:

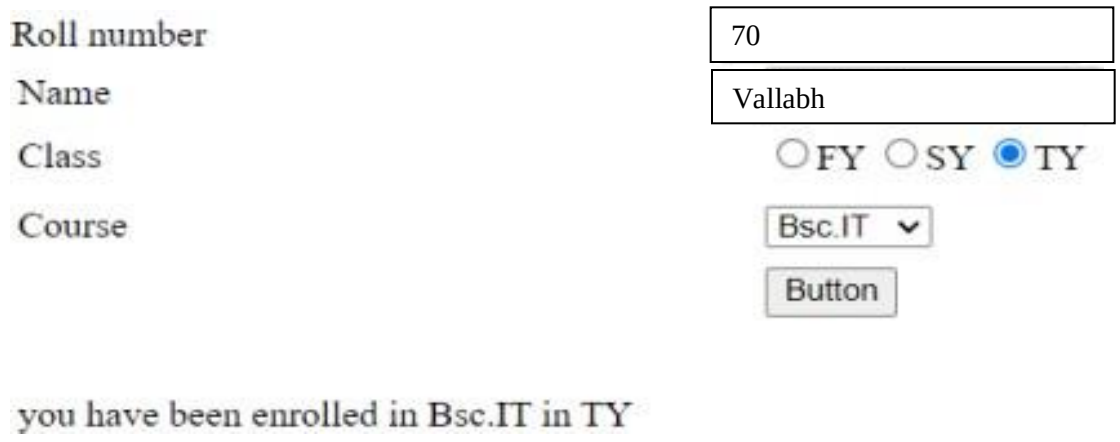
a.) Create a simple web page with various sever controls to demonstrate setting and use of their properties. (Example : AutoPostBack)

Code:

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

namespace practical3a
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }



      protected void Button1_Click(object sender, EventArgs e)
      {
         string s;
         if(RadioButton1.Checked == true)
         {
            s = RadioButton1.Text;
         }
         if(RadioButton2.Checked == true)
```

```
        {
            s =RadioButton2.Text;
        }
        else
        {
            s = RadioButton3.Text;
        }
        Label5.Text += " in " + s;
    }
    protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
    {
        Label5.Text = " you have been enrolled in " + DropDownList1.SelectedItem;
    }

  }
}
```

Output:



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Aim:

b.) 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

a) Display messages in a calendar control

Code:

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

namespace practical3b
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
      {
         if (e.Day.Date.Day == 18)
            e.Cell.Controls.Add(new LiteralControl("</br>Holiday"));
```

```
    }
  }
}
```

Output:

b) Display vacation in a calendar control

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace practical3b_a_
{
  public partial class WebForm1 : System.Web.UI.Page
  {
```

```
    protected void Page_Load(object sender, EventArgs e)
    {
protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
    {
      if((e.Day.Date>= new DateTime(2022, 07, 18)) && (e.Day.Date<= new DateTime(2022,
07, 24 )))
        {
          e.Cell.BackColor = System.Drawing.Color.LightBlue;
          e.Cell.BorderColor = System.Drawing.Color.Black;
          e.Cell.BorderWidth = new Unit(3);
        }
    }
  }
```

Output:

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c) Selected day in a calendar control using style

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace practical3b_c_
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {
      }
      protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
      {
        if((e.Day.Date >= new DateTime(2022, 07, 18)) && (e.Day.Date <= new DateTime(2022,
07, 24)))
          {
             e.Cell.BackColor= System.Drawing.Color.Cyan;
             e.Cell.ForeColor= System.Drawing.Color.Black;
             e.Cell.BorderWidth = new Unit(3);
             if(e.Day.IsOtherMonth)
             {
                e.Cell.Controls.Clear();
             }
          }
      }
```

```
    }
}
```

Output:

d) Difference between two calendar dates.

Code:

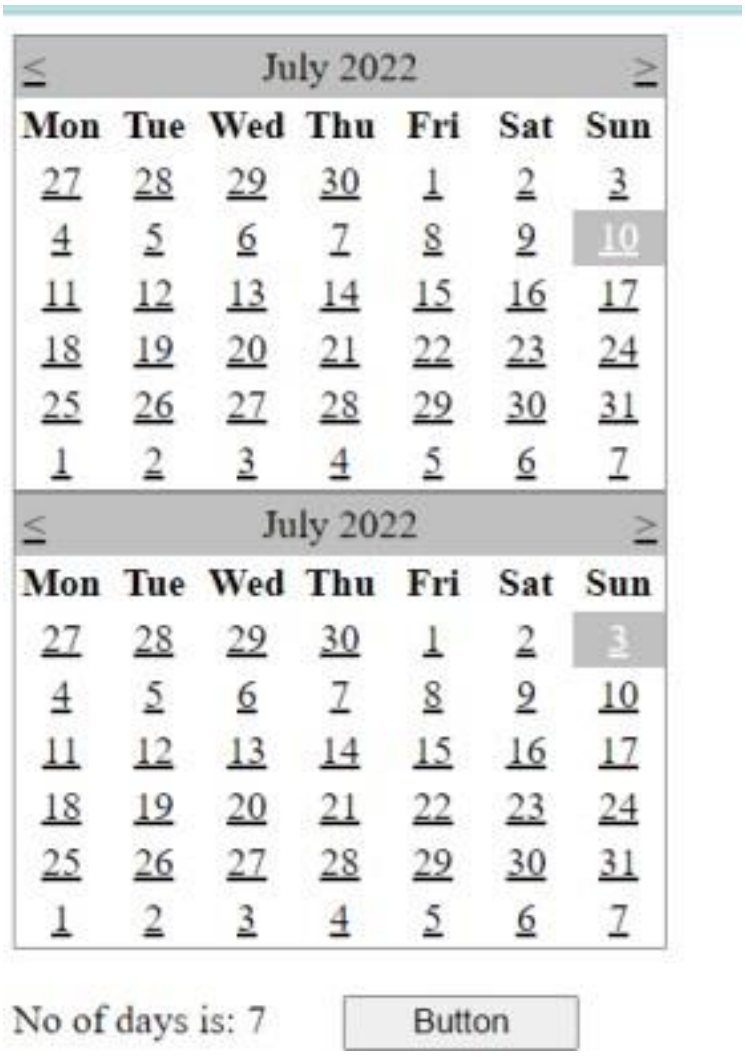
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace practical3b_d_
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
```

```
    protected void Button1_Click(object sender, EventArgs e)
    {
        TimeSpan t = Calendar1.SelectedDate - Calendar2.SelectedDate;
        Label1.Text += t.Days.ToString();
    }
  }
}
```

Output:



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Aim:

c.) Demonstrate the use of Treeview control perform following operations.

a) Treeview control and datalist b) Treeview operations

a) Treeview control and datalist

Code:

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

namespace practical3c_a_
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         TreeNodeCollection T;

         T = TreeView1.CheckedNodes;
         DataList1.DataSource = T;
         DataList1.DataBind();
         DataList1.Visible = true;
```

```
    }
  }
}
```

Output:

b) Treeview operations

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace practical3c_b_
{
  public partial class WebForm1 : System.Web.UI.Page
```

```
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void TreeView1_SelectedNodeChanged(object sender, EventArgs e)
        {
            Response.Write("You have selected the option: " + TreeView1.SelectedValue);
        }
        protected void TreeView1_TreeNodeCollapsed(object sender, TreeNodeEventArgs e)
        {
            Response.Write("The value collapsed was: " + e.Node.Value);
        }
    }
}
```

Output:

Practical No. 04

Working with Form Controls

Aim:

a.) Create a Registration form to demonstrate use of various Validation controls.

b.) Create Web Form to demonstrate use of Adrotator Control.

c.) Create Web Form to demonstrate use of User Controls.

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Sub: Advance web programming

Grade:

Sign:

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Aim:

a.) Create a Registration form to demonstrate use of various Validation controls.

Code:

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

namespace practicalno04a
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void TextBox1_TextChanged(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Write("Submitted");
        }
    }
}
```

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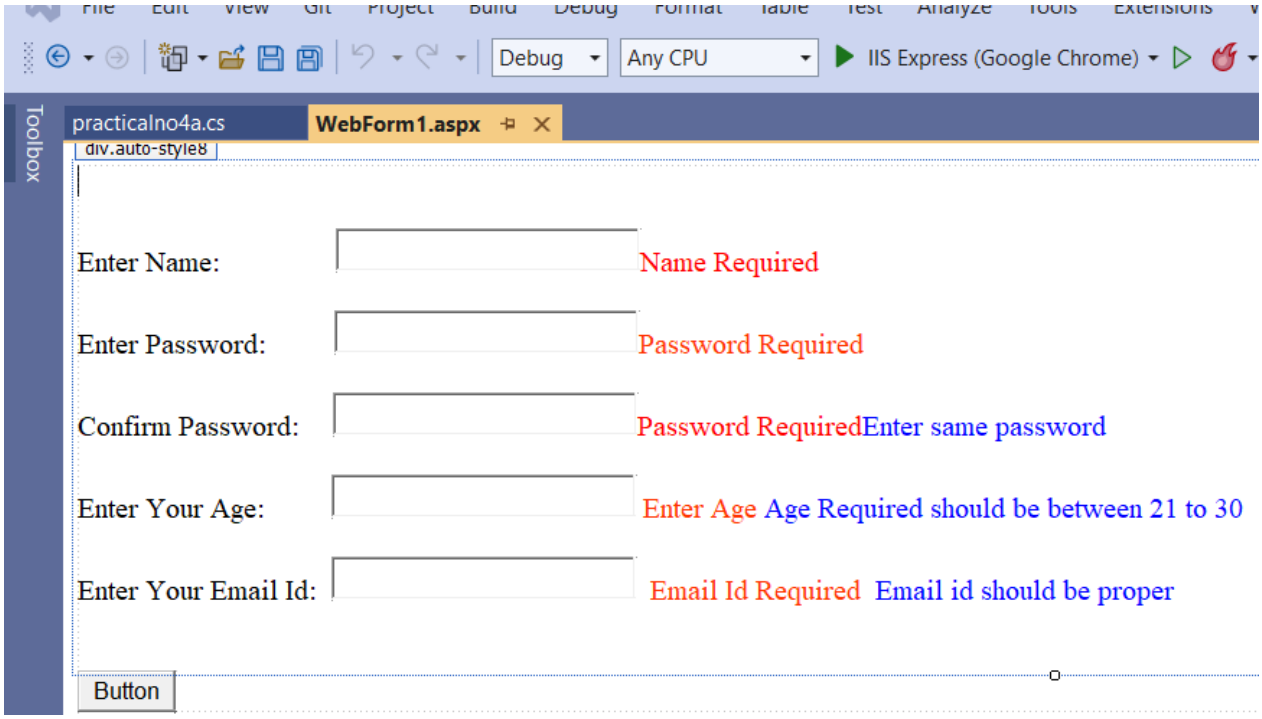
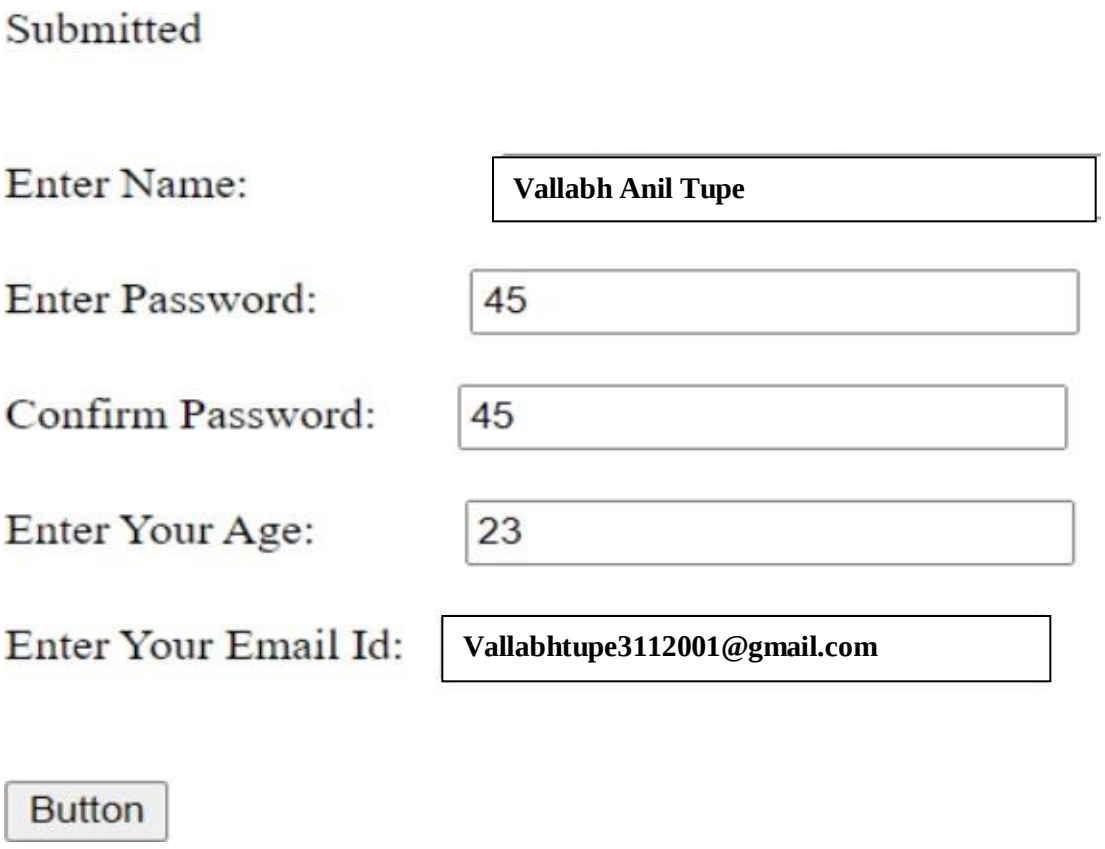


Output:



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Aim:

b.) Create Web Form to demonstrate use of Adrotator Control.

Code:

Xml.flie

```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
	<Ad>
		<ImageUrl>computer.jpg</ImageUrl>
		<NevigateUrl>google.com</NevigateUrl>
		<AlternateText>computer</AlternateText>
		<Impressions>10</Impressions>
		<Keywords>Computer</Keywords>
	</Ad>
	<Ad>
		<ImageUrl>flower.jpg</ImageUrl>
		<NevigateUrl>google.com</NevigateUrl>
		<AlternateText>flower</AlternateText>
		<Impressions>6</Impressions>
		<Keywords>Flower</Keywords>
	</Ad>
</Advertisements>
```

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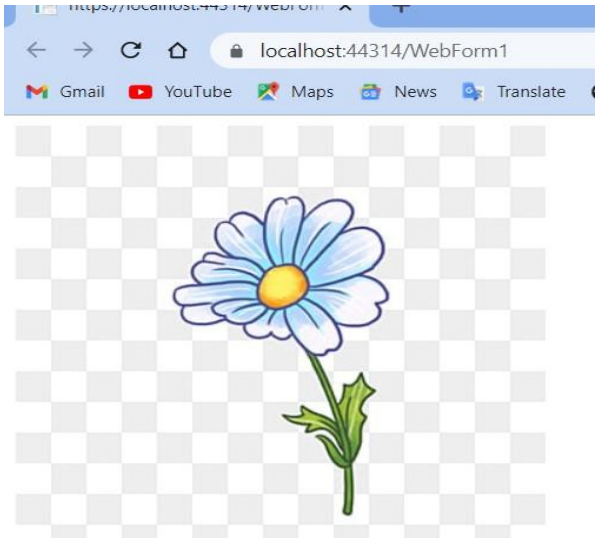
Output:



Aim:

c.) Create Web Form to demonstrate use of User Controls.

Web user control

Code:

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

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

namespace practical4c
{
   public partial class WebUserControl1 : System.Web.UI.UserControl
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         TextBox2.Text = "WELCOME " + TextBox1.Text;
      }
   }
}
```

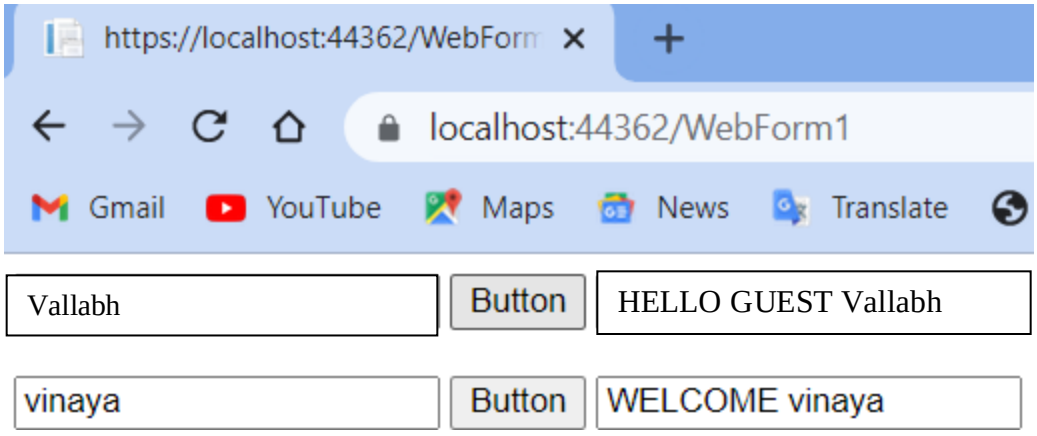
Web form

Code:

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

namespace practical4c
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
```

```
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        TextBox2.Text = "HELLO GUEST " + TextBox1.Text;
    }
}
```

Output:



Practical No. 05

Working with Navigation, Beautification and Master page.

Aim:

a. Create Web Form to demonstrate use of Website Navigation controls and Site Map.

b. Create a web application to demonstrate use of Master Page with applying Styles and Themes for page beautification.

c. Create a web application to demonstrate various states of ASP.NET Pages.

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Roll No:70

Class: T.Y.B.Sc.IT

Sub: Advance web programming

Grade:

Sign:

Name: Vallabh Anil Tupe

Roll no: 70

Aim:

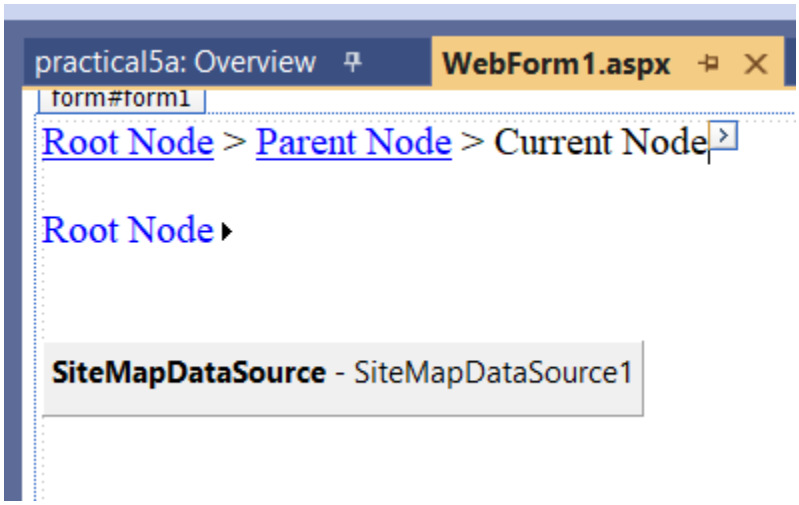
a.) Create Web Form to demonstrate use of Website Navigation controls and Site Map

Code:

Sitemap

```
<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
  <siteMapNode url="WebForm1.aspx" title="Home"  description="">
    <siteMapNode url="WebForm2.aspx" title="Second page"  description="" />
    <siteMapNode url="WebForm3.aspx" title="Third page"  description="" />
  </siteMapNode>
</siteMap>
```

Webform1



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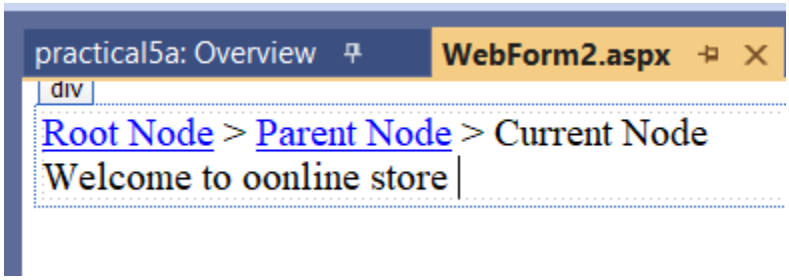
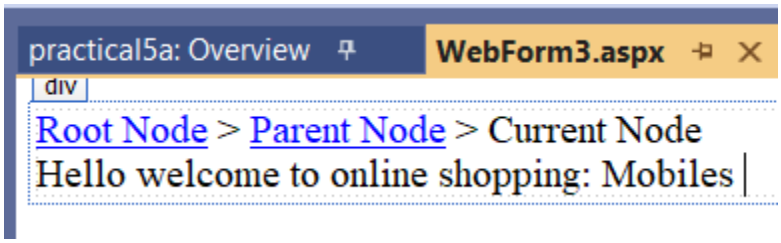
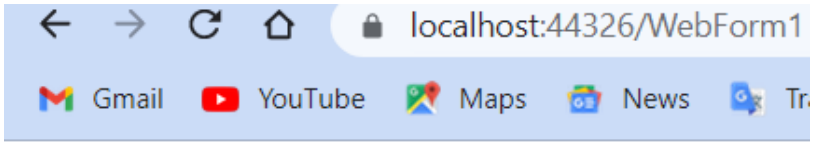
Webform2



Webform3

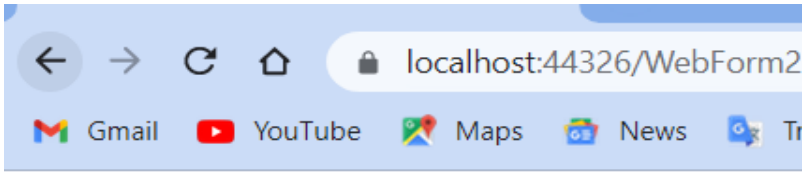


Output:

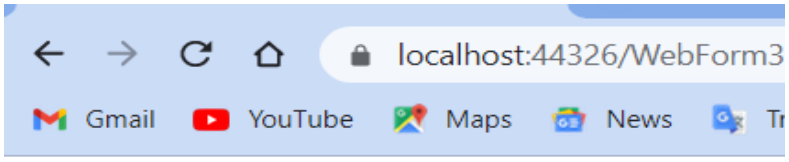


Home ▸ Second page

Third page



Welcome to online store



Hello welcome to online shopping: Mobiles

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Aim:

b. Create a web application to demonstrate use of Master Page with applying Styles and Themes for page beautification.

Code:

Webform 1

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="practical5b.WebForm1"
Theme="Skin1"%>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <asp:Label ID="Label1" runat="server" SkinId= "lb1" Text="Select the date"></asp:Label>
    <br />
    <br />
    <asp:Calendar ID="Calendar1" runat="server"></asp:Calendar>
    <br />
    <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/WebForm2.aspx">Next</asp:HyperLink>
    <br />
</asp:Content>
```

Stylesheet1.css

```
body {
    background-color : gray;
    font: italic;
}
```

Skin1.skin

```
<asp:Label runat="server" SkinId="lb1" backcolor= blue/>
```

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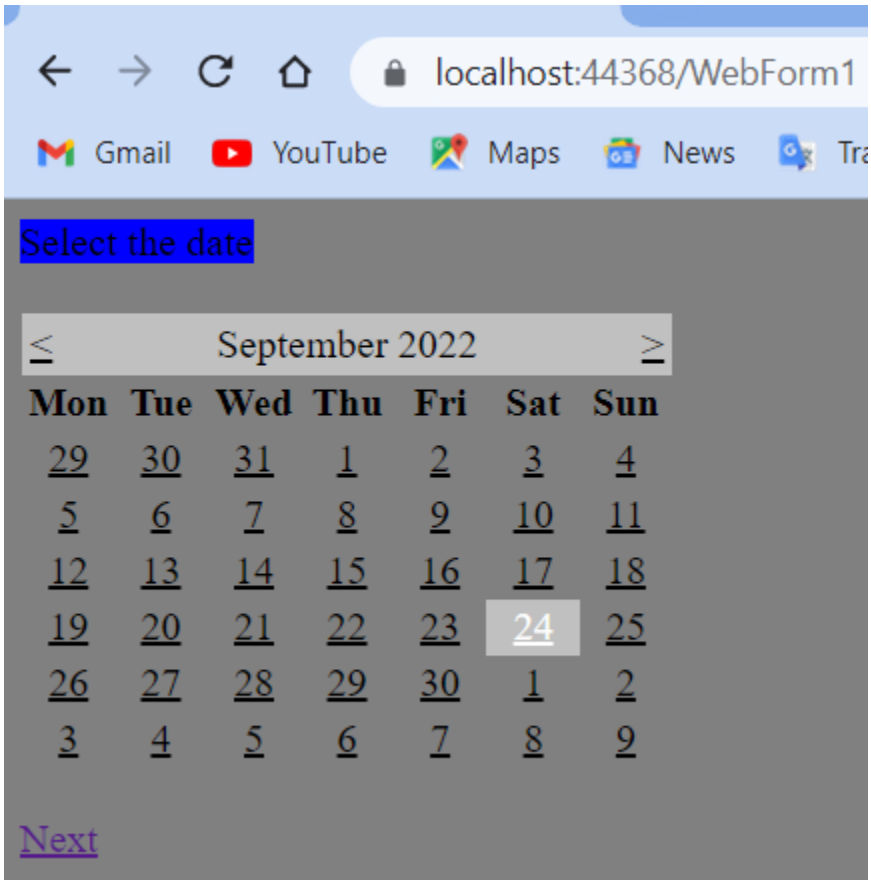
Output:



Aim:

c. Create a web application to demonstrate various states of ASP.NET Pages.

Code:

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

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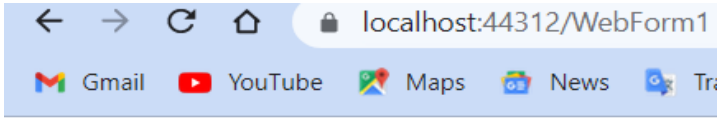
```
namespace practical5c
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {
         if(IsPostBack)
         {
            if (ViewState["count"] != null)
            {
               int ViewstateVal = Convert.ToInt32(ViewState["count"])+ 1;
               Label1.Text = "view state :" + ViewstateVal.ToString();
               ViewState["count"] = ViewstateVal;
            }
            else
            {
               ViewState["count"] = "1";
            }
         }
      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         Label2.Text = ViewState["count"].ToString();
      }

      protected void Button2_Click(object sender, EventArgs e)
      {
         if(HiddenField1.Value != null)
         {
            int val = Convert.ToInt32(HiddenField1.Value) + 1;
```

```
            HiddenField1.Value = val.ToString();

        }
    }

    protected void Button3_Click(object sender, EventArgs e)
    {
        HttpCookie h = new HttpCookie("Name");
        h.Value = TextBox1.Text;
        Response.Cookies.Add(h);
        Response.Redirect("WebForm2.aspx");
    }
  }
}
```

Output:



view state :3

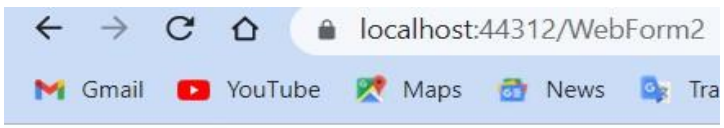
3

View State

Hidden Filed

Vallabh

Cookies



Welcome: Vallabh

Practical No. 06

Working with Database

Aim:

a) Create a web application bind data in a multiline textbox by querying in another textbox.

b) Create a web application to display records by using a database.

c) Demonstrate the use of Datalist link control.

Name: Vallabh Anil Tupe

Roll No:70

Class: T.Y.B.Sc.IT

Sub: Advance web programming

Grade:

Sign:

Name: Vallabh Anil Tupe

Roll No: 70

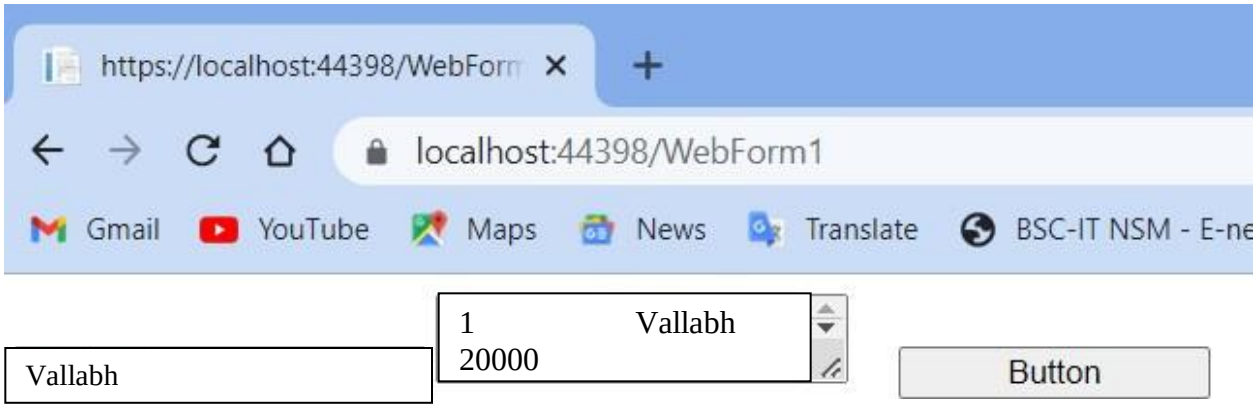
Aim: a) Create a web application bind data in a multiline textbox by querying in another textbox.

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
namespace practical6
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      SqlConnection cn = new SqlConnection("Data
Source=LAPTOP-B1APOO4T\\SQLEXPRESS01;Initial Catalog=employee;Integrated
Security=True;Pooling=False");
      SqlCommand co = new SqlCommand();
      SqlDataReader ds;
      protected void Page_Load(object sender, EventArgs e)
      {
         cn.Open();
         co.Connection = cn;
      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         co.CommandText = "select * from emp where name='" + TextBox1.Text + "';";
```

```
        ds = co.ExecuteReader();
        while (ds.Read())
        {
            TextBox2.Text += ds[0].ToString() + "\t" + ds[1].ToString() + "\t" + ds[2].ToString() +
"\n";
        }
    }
  }
}
```

Output:



Aim: b) Create a web application to display records by using a database.

Code:

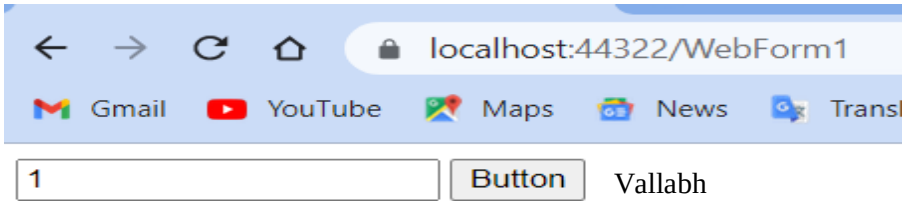
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
```

Name: Vallabh Anil Tupe

Roll No: 70

```
namespace practical6b
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      SqlConnection cn = new SqlConnection("Data
Source=LAPTOP-B1APOO4T\\SQLEXPRESS01;Initial Catalog=db1;Integrated
Security=True");
      SqlCommand co = new SqlCommand();
      SqlDataReader ds;

      protected void Page_Load(object sender, EventArgs e)
      {
         cn.Open();
         co.Connection = cn;

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         co.CommandText = "select Name from stud where Rollno ='" + TextBox1.Text + "';";
         Label1.Text = co.ExecuteScalar().ToString();
      }
   }
}
```

Output:

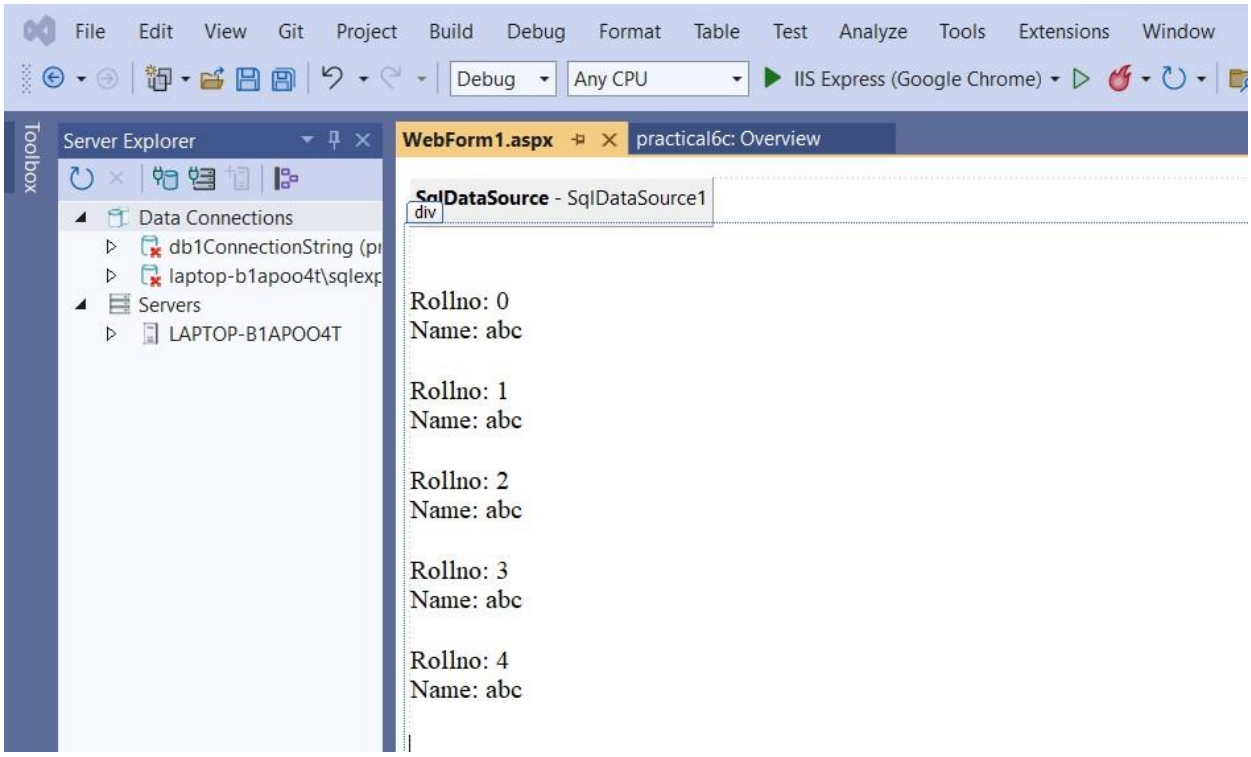


Name: Vallabh Anil Tupe

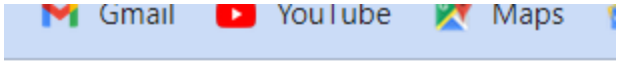
Roll No: 70

Aim: c) Demonstrate the use of Datalist link control.

Code:



Output:



Rollno: 1
Name: Vallabh

Rollno: 2
Name: vedant

Practical No. 07

Working with Database

Aim:

a. Create a web application to display Data Binding using dropdownlist control.

b. Create a web application to display the phone no of an author using a database.

c. Create a web application for inserting and deleting records from a database. (Using Execute-Non Query).

Name: Vallabh Anil Tupe

Roll No:70

Class: T.Y.B.Sc.IT

Sub: Advance web programming

Grade:

Sign:

Name: Vallabh Anil Tupe

Roll no: 70

Aim:

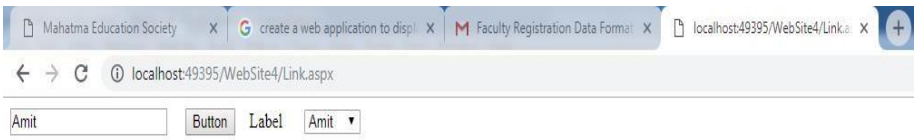
a. Create a web application to display Data Binding using dropdownlist control.

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
namespace practical7a
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      SqlConnection cn = new SqlConnection("Data
Source=LAPTOP-B1APOO4T\\SQLEXPRESS01;Initial Catalog=db1;Integrated
Security=True");
      SqlCommand co = new SqlCommand();
      SqlDataReader ds;
      protected void Page_Load(object sender, EventArgs e)
      {
         cn.Open();
         co.Connection = cn;

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         co.CommandText = "select * from stud;";
         ds = co.ExecuteReader();
```

```
        DropDownList1.DataSource = ds;
        DropDownList1.DataTextField = "Name";
        DropDownList1.DataBind();



    }

    protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
    {
        TextBox1.Text = DropDownList1.Text;
    }
  }
}
```

Output:



Aim:

b. Create a web application to display the phone no of an author using a database.

Code:

```
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
```

Name: Vallabh Anil Tupe

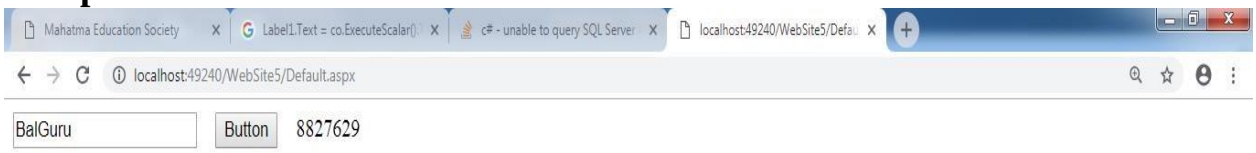
Roll no: 70

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

namespace practical7b
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      SqlConnection cn = new SqlConnection("Data
Source=LAPTOP-B1APOO4T\\SQLEXPRESS01;Initial Catalog=db2;Integrated
Security=True;Pooling=False");
      SqlCommand co = new SqlCommand();
      SqlDataReader ds;

      protected void Page_Load(object sender, EventArgs e)
      {
         cn.Open();
         co.Connection = cn;

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         co.CommandText = "select phonenumber from stud where name='" + TextBox1.Text +
"';";
         Label1.Text = co.ExecuteScalar().ToString();
      }
   }
}
```

Name: Vallabh Anil Tupe

Roll no: 70

Output:



Aim:

c. Create a web application for inserting and deleting records from a database. (Using Execute-Non Query).

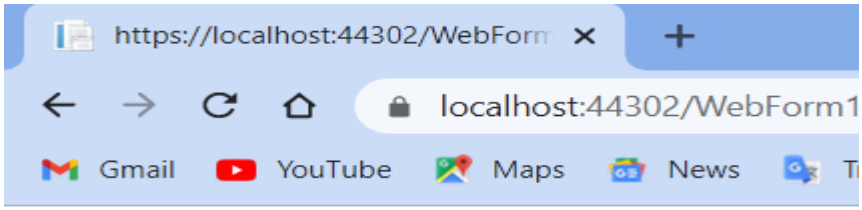
Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
namespace prac7c
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      SqlConnection cn = new SqlConnection("Data
Source=LAPTOP-B1APOO4T\\SQLEXPRESS01;Initial Catalog=db1;Integrated
Security=True");
      SqlDataReader ds;
      SqlCommand co = new SqlCommand();
      SqlParameter @p1, @p2, @p3, @p4;

      protected void Button2_Click(object sender, EventArgs e)
      {
         co.CommandText = "delete from student where sno='" + TextBox1.Text + "';";
         co.ExecuteNonQuery();
```

```
}

protected void Button3_Click(object sender, EventArgs e)
{
   co.CommandText = "select * from student ;";
   ds = co.ExecuteReader();
   GridView1.DataBind();
}

protected void Page_Load(object sender, EventArgs e)
{
   cn.Open();
   co.Connection = cn;

}

protected void Button1_Click(object sender, EventArgs e)
{
   @p1 = new SqlParameter();
   @p1.ParameterName = "sno";
   @p1.SqlDbType = System.Data.SqlDbType.Int;

   @p2 = new SqlParameter();
   @p2.ParameterName = "name";
   @p2.SqlDbType = System.Data.SqlDbType.VarChar;

   @p3 = new SqlParameter();
   @p3.ParameterName = "city";
   @p3.SqlDbType = System.Data.SqlDbType.VarChar;

   @p4 = new SqlParameter();
```

```
        @p4.ParameterName = "class";
        @p4.SqlDbType = System.Data.SqlDbType.VarChar;

        co.Parameters.AddWithValue("@p1", TextBox1.Text);
        co.Parameters.AddWithValue("@p2", TextBox2.Text);
        co.Parameters.AddWithValue("@p3", TextBox3.Text);
        co.Parameters.AddWithValue("@p4", TextBox4.Text);

        co.CommandText = " insert into student(sno,name,city,class)
values(@p1,@p2,@p3,@p4)";
        co.ExecuteNonQuery();
    }
  }
}
```

Output:



4

sanjeev

delhi

bsc

Insert Delete View

sno	name	city	class
1	vaishnavi	kolkata	tyit
2	vedant	mumbai	fyit
3	vinaya	benglore	syit
4	sanjeev	delhi	bsc

Practical No. 08

Working with data controls

Aim:

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

b. Create a web application to demonstrate data binding using DetailsView and FormView Control.

c. Create a web application to display Using Disconnected Data Access and Data Binding using GridView.

Name: Vallabh Anil Tupe

Roll No:70

Class: T.Y.B.Sc.IT

Sub: Advance web programming

Grade:

Sign:

Name: Vallabh Anil Tupe

Roll no: 70

Aim:

a.) Create a web application to demonstrate various uses and properties of SqlDataSource.

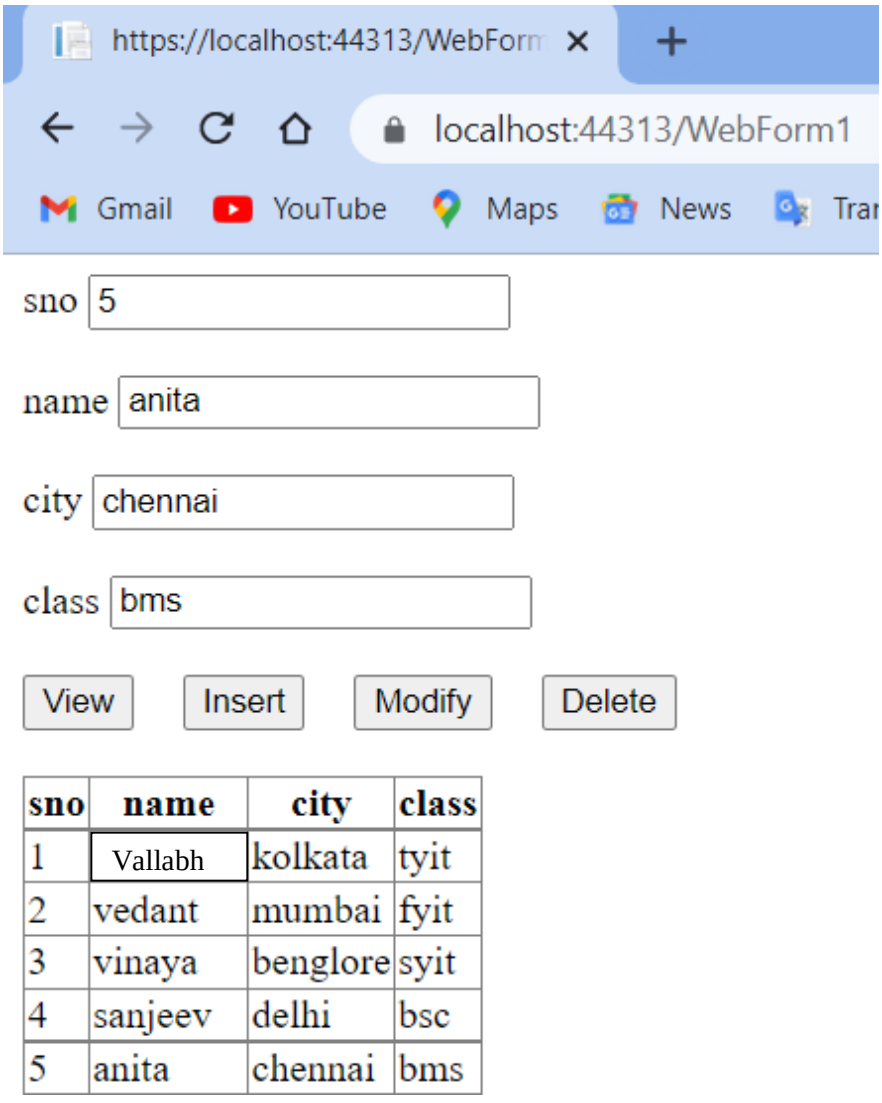
Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
namespace prac8a
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      SqlCommand co = new SqlCommand();
      SqlDataReader ds;
      SqlDataSource s = new SqlDataSource();

      protected void Page_Load(object sender, EventArgs e)
      {
            s.ConnectionString = "Data Source=LAPTOP-B1APOO4T\\SQLEXPRESS01;Initial
Catalog=db1;Integrated Security=True" ;

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         s.SelectCommand = "select * from student;";
         GridView1.DataBind();
```

```
}

protected void Button2_Click(object sender, EventArgs e)
{
        SqlParameter p1 = new SqlParameter(), p2 = new SqlParameter(), p3= new SqlParameter(),p4 = new SqlParameter();
   s.InsertParameters.Add("p1", System.Data.DbType.Int32, TextBox1.Text);
   s.InsertParameters.Add("p2", System.Data.DbType.String, TextBox2.Text);
   s.InsertParameters.Add("p3", System.Data.DbType.String, TextBox3.Text);
   s.InsertParameters.Add("p4", System.Data.DbType.String, TextBox4.Text);
   s.InsertCommand = "insert into student values(@p1,@p2,@p3,@p4);";
   s.Insert();
}

protected void Button3_Click(object sender, EventArgs e)
{
   SqlParameter p1 = new SqlParameter(), p2 = new SqlParameter();
   s.UpdateParameters.Add("p2", System.Data.DbType.String, TextBox2.Text);
   s.UpdateParameters.Add("p1", System.Data.DbType.Int32, TextBox1.Text);
   s.UpdateCommand = "Update student SET name = @p2 where sno= @p1 ;";
   s.Update();
}

protected void Button4_Click(object sender, EventArgs e)
{
   SqlParameter p1 = new SqlParameter();
   s.DeleteParameters.Add("p1", System.Data.DbType.Int32, TextBox1.Text);
   s.DeleteCommand = "DElete student where sno= @p1 ;";
   s.Delete();
}
```

```
    }
}
```

Output:



sno	name	city	class
1	Vallabh	kolkata	tyit
2	vedant	mumbai	fyit
3	vinaya	benglore	syit
4	sanjeev	delhi	bsc
5	anita	chennai	bms

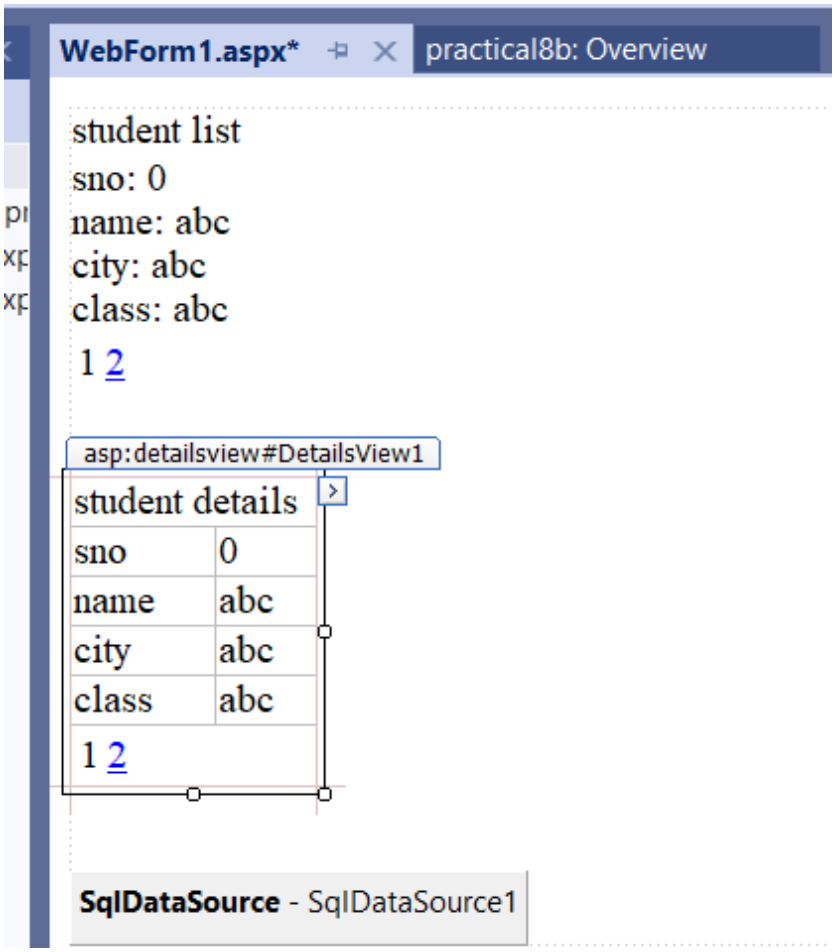
Name: Vallabh Anil Tupe

Roll no: 70

Aim:

b. Create a web application to demonstrate data binding using DetailsView and FormView Control.

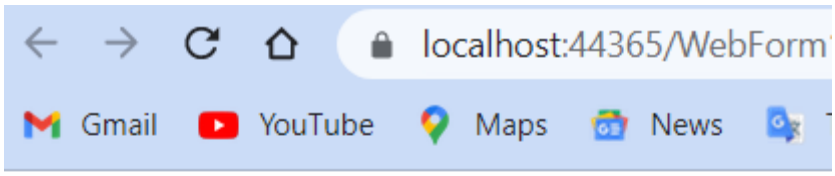
Code:



Name: Vallabh Anil Tupe

Roll no: 70

Output:



student list
sno: 1
name: Vallabh
city: kolkata
class: tyit
1 2 3 4 5

student details	
sno	1
name	Vallabh
city	kolkata
class	tyit
1 2 3 4 5	

Aim:

c. Create a web application to display Using Disconnected Data Access and Data Binding using GridView.

Code:

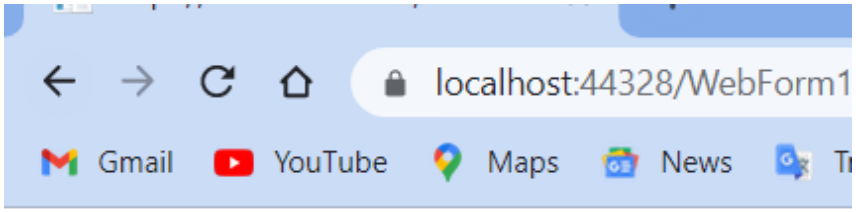
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Data;
namespace prac8c
{
```

Name: Vallabh Anil Tupe

Roll no: 70

```
public partial class WebForm1 : System.Web.UI.Page
{
                    SqlConnection con = new SqlConnection(“ Data Source=LAPTOP-B1APOO4T\\SQLEXPRESS01;Initial Catalog=db1;Integrated Security=True");
 protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        da = new SqlDataAdapter("select * from student",con);
        da.Fill(ds, "stud");
        GridView1.DataSource = ds;
        GridView1.DataBind();

    }
}
}
```

Output:



sno	name	city	class
1	Vallabh	kolkata	tyit
2	vedant	mumbai	fyit
3	vinaya	benglore	syit
4	sanjeev	delhi	bsc
5	anita	chennai	bms

Button

Name: Vallabh Tupe
Roll no 70

Practical No.09

Working with Database

Aim:

a) Create a web application to demonstrate use of GridView control template and GridView hyperlink.

b) Create a web application to demonstrate use of GridView button column and GridView events.

c) Create a web application to demonstrate GridView paging and Creating own table format using GridView.

Name: Vallabh Tupe

Roll no: 70

Class: T.Y.Bsc.IT

Subject: Advance Web Programming

\

Grade:

Sign:

Name: Vallabh Tupe
Roll no 70

Code:
a) Create a web application to demonstrate use of GridView control template and GridView hyperlink.

WebForm1.aspx----------

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="AWP_9A.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
      <div>
      </div>
      <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="Id" DataSourceID="SqlDataSource1">
         <Columns>
            <asp:CommandField ShowDeleteButton="True" ShowEditButton="True" />
            <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
            <asp:TemplateField HeaderText="name" SortExpression="name">
               <EditItemTemplate>
                  <asp:DropDownList ID="DropDownList1" runat="server"
DataSourceID="SqlDataSource2" DataTextField="name" DataValueField="name"
SelectedValue='<%# Bind("name") %>'>
                  </asp:DropDownList>
                  <asp:SqlDataSource ID="SqlDataSource2" runat="server"
ConnectionString="<%$ ConnectionStrings:empConnectionString %>"
SelectCommand="SELECT DISTINCT [name] FROM [emp]"></asp:SqlDataSource>
               </EditItemTemplate>
               <ItemTemplate>
                  <asp:Label ID="Label1" runat="server" Text='<%# Bind("name")
%>'></asp:Label>
               </ItemTemplate>
            </asp:TemplateField>
            <asp:BoundField DataField="salary" HeaderText="salary"
SortExpression="salary" />
```

```
        </Columns>
    </asp:GridView>
    <p>
        </p>
    <p>
        </p>
    <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConflictDetection="CompareAllValues" ConnectionString="<%$
ConnectionStrings:empConnectionString2 %>" DeleteCommand="DELETE FROM [emp]
WHERE [Id] = @original_Id AND (([name] = @original_name) OR ([name] IS NULL AND
@original_name IS NULL)) AND (([salary] = @original_salary) OR ([salary] IS NULL
AND @original_salary IS NULL))" InsertCommand="INSERT INTO [emp] ([Id], [name],
[salary]) VALUES (@Id, @name, @salary)"
OldValuesParameterFormatString="original_{0}" SelectCommand="SELECT * FROM
[emp]" UpdateCommand="UPDATE [emp] SET [name] = @name, [salary] = @salary
WHERE [Id] = @original_Id AND (([name] = @original_name) OR ([name] IS NULL AND
@original_name IS NULL)) AND (([salary] = @original_salary) OR ([salary] IS NULL
AND @original_salary IS NULL))">
        <DeleteParameters>
            <asp:Parameter Name="original_Id" Type="Int32" />
            <asp:Parameter Name="original_name" Type="String" />
            <asp:Parameter Name="original_salary" Type="Int32" />
        </DeleteParameters>
        <InsertParameters>
            <asp:Parameter Name="Id" Type="Int32" />
            <asp:Parameter Name="name" Type="String" />
            <asp:Parameter Name="salary" Type="Int32" />
        </InsertParameters>
        <UpdateParameters>
            <asp:Parameter Name="name" Type="String" />
            <asp:Parameter Name="salary" Type="Int32" />
            <asp:Parameter Name="original_Id" Type="Int32" />
            <asp:Parameter Name="original_name" Type="String" />
            <asp:Parameter Name="original_salary" Type="Int32" />
        </UpdateParameters>
    </asp:SqlDataSource>
  </form>
</body>
</html>
```

WebForm2.aspx----------

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="AWP_9A.WebForm2" %>


<!DOCTYPE html>
```

Name: Vallabh Tupe
Roll no 70

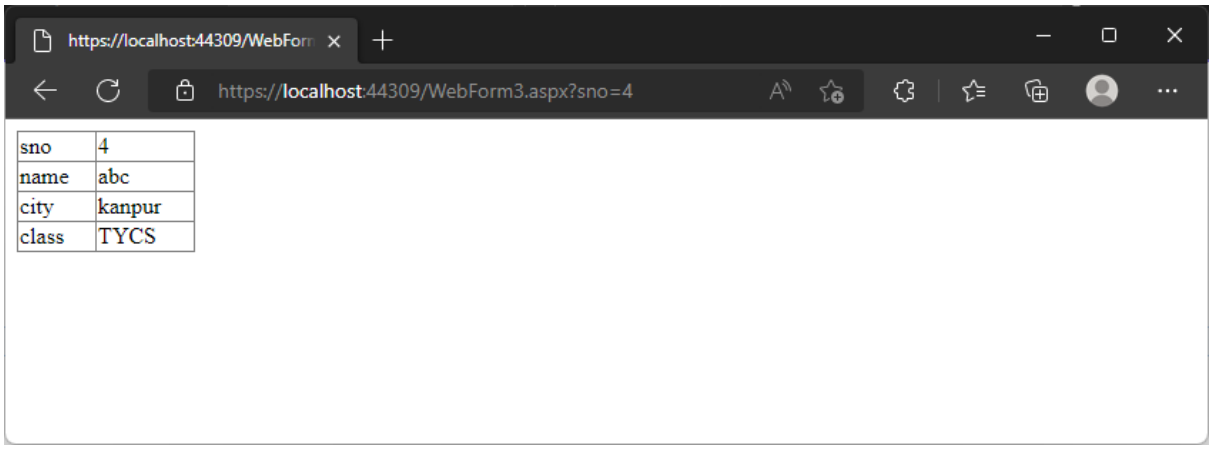
```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
      <div>
      </div>
      <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataSourceID="SqlDataSource1">
         <Columns>
            <asp:HyperLinkField DataNavigateUrlFields="sno"
DataNavigateUrlFormatString="WebForm3.aspx?sno={0}" DataTextField="name"
Text="Name" />
         </Columns>
      </asp:GridView>
      <p>
         </p>
      <p>
         <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:mydb3ConnectionString %>" SelectCommand="SELECT [sno], [name]
FROM [student]"></asp:SqlDataSource>
      </p>
   </form>
</body>
</html>
```

WebForm3.aspx----------

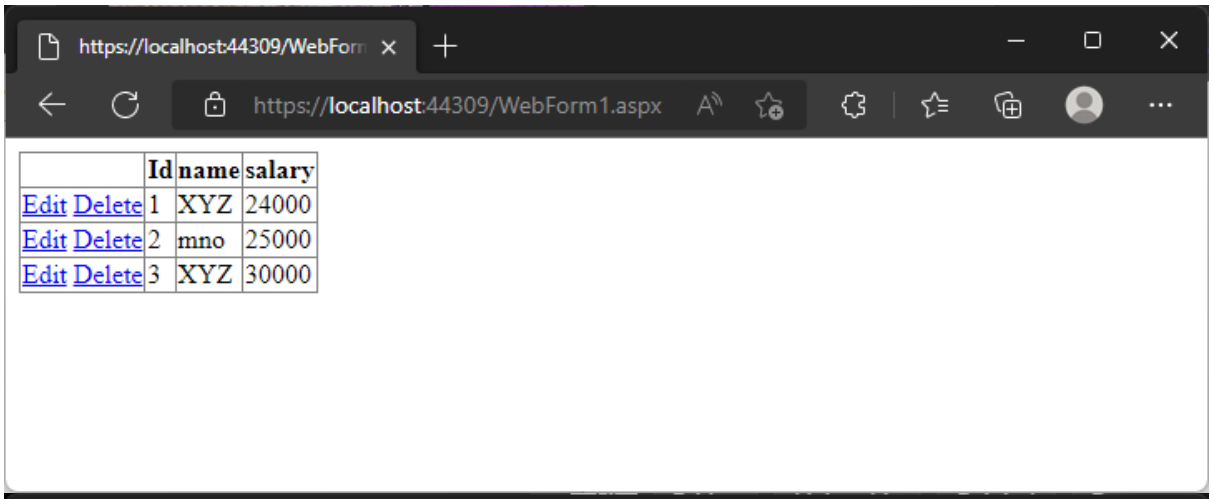
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
Inherits="AWP_9A.WebForm3" %>


<!DOCTYPE html>


<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
      <div>
      </div>
      <asp:DetailsView ID="DetailsView1" runat="server" AutoGenerateRows="False"
DataSourceID="SqlDataSource1" Height="50px" Width="125px">
         <Fields>
            <asp:BoundField DataField="sno" HeaderText="sno" SortExpression="sno" />
```

```
            <asp:BoundField DataField="name" HeaderText="name" SortExpression="name"
/>
            <asp:BoundField DataField="city" HeaderText="city" SortExpression="city" />
            <asp:BoundField DataField="class" HeaderText="class" SortExpression="class" />
        </Fields>
    </asp:DetailsView>
    <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:mydb3ConnectionString2 %>" SelectCommand="SELECT * FROM
[student] WHERE ([sno] = @sno)">
        <SelectParameters>
            <asp:QueryStringParameter Name="sno" QueryStringField="sno" Type="Int32" />
        </SelectParameters>
    </asp:SqlDataSource>
  </form>
</body>
</html>
```

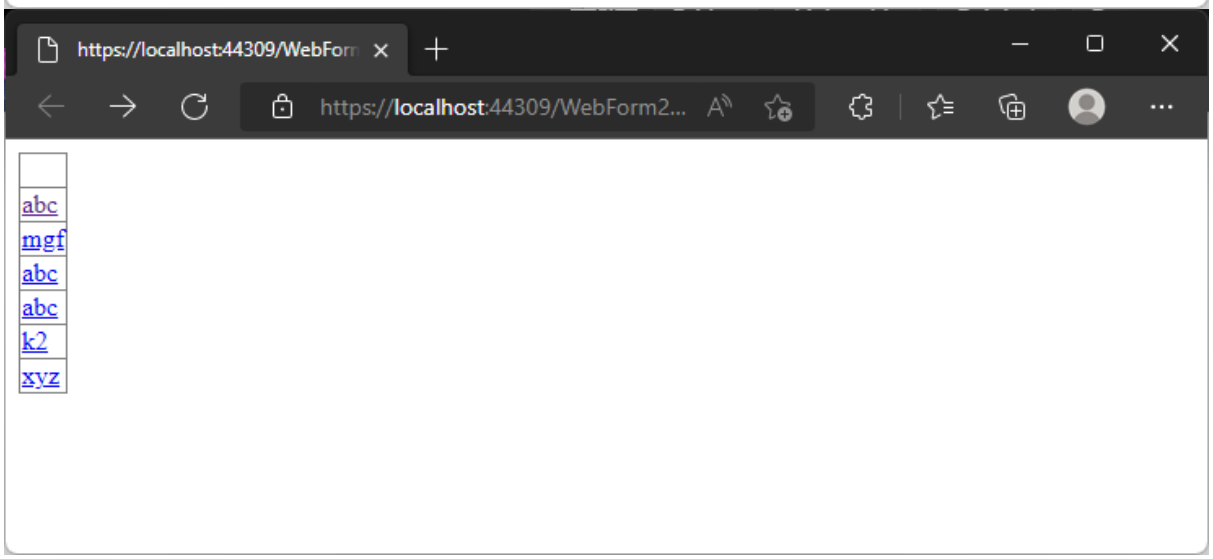
Output:



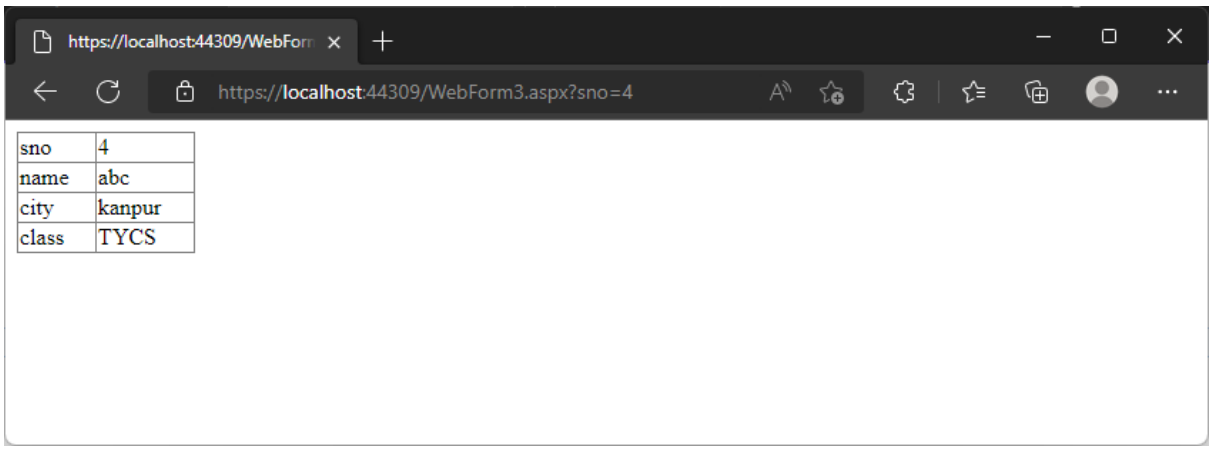
Name: Vallabh Tupe
Roll no 70



	Id	name	salary
Edit Delete	1	XYZ	24000
Edit Delete	2	mno	25000
Edit Delete	3	XYZ	30000



abc
mgf
abc
abc
k2
xyz



sno	4
name	abc
city	kanpur
class	TYCS

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Roll no 70

Code:
b) Create a web application to demonstrate use of GridView button column and GridView events.

WebForm1.aspx.cs----------

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

namespace AWP9B
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
```

```
    }

    protected void GridView1_RowCommand(object sender,
GridViewCommandEventArgs e)

    {

        if(e.CommandName=="B1")

        {

GridView1.Rows[Convert.ToInt16(e.CommandArgument)].BackColor=System.Drawing.Col
or.Magenta;

        }

    }

  }

}
```

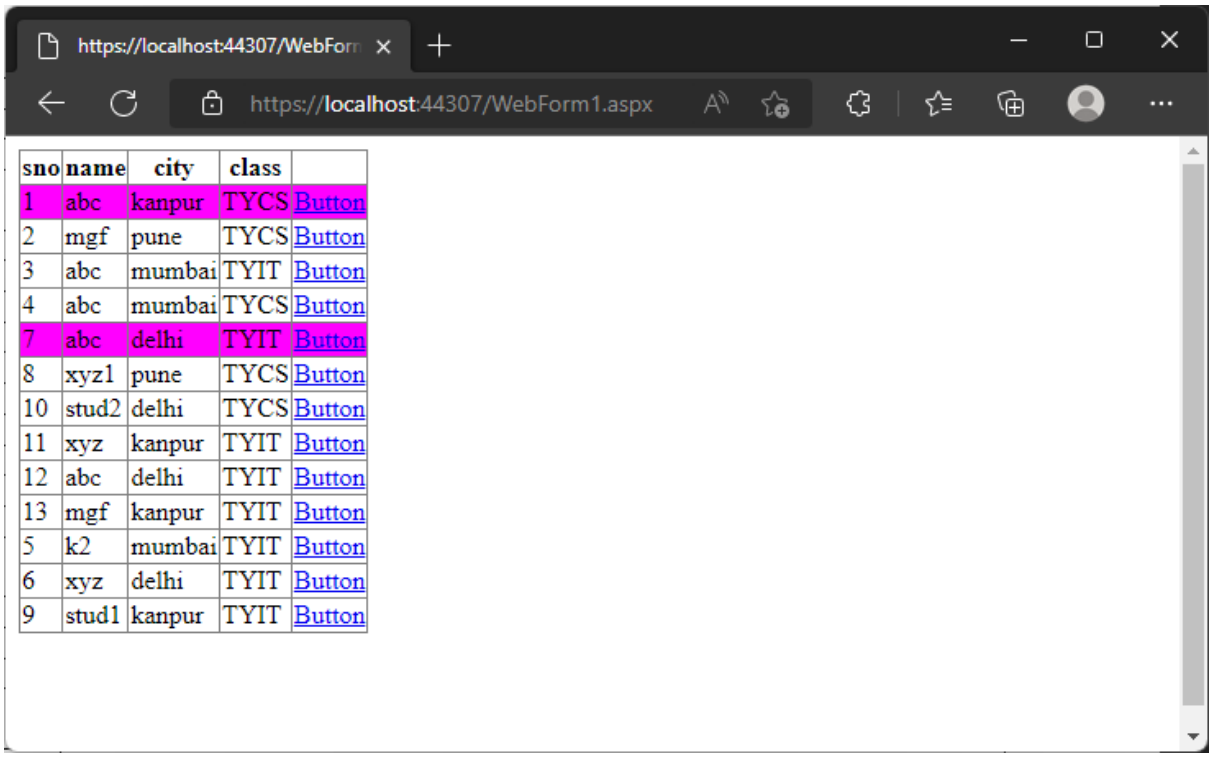
WebForm1.aspx----------

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="AWP9B.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

  <title></title>

</head>

<body>

  <form id="form1" runat="server">

    <div>
```

```
    </div>

    <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataSourceID="SqlDataSource1" OnRowCommand="GridView1_RowCommand" >

        <Columns>

            <asp:BoundField DataField="sno" HeaderText="sno" SortExpression="sno" />

            <asp:BoundField DataField="name" HeaderText="name" SortExpression="name"
/>

            <asp:BoundField DataField="city" HeaderText="city" SortExpression="city" />

            <asp:BoundField DataField="class" HeaderText="class" SortExpression="class" />

            <asp:ButtonField CommandName="B1" Text="Button" />

        </Columns>

    </asp:GridView>

    <p>

         </p>

    <p>

         </p>

    <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:mydb3ConnectionString2 %>" SelectCommand="SELECT * FROM
[student]"></asp:SqlDataSource>

  </form>

</body>

</html>
```

Code:

Name: Vallabh Tupe
Roll no 70



sno	name	city	class	
1	abc	kanpur	TYCS	Button
2	mgf	pune	TYCS	Button
3	abc	mumbai	TYIT	Button
4	abc	mumbai	TYCS	Button
7	abc	delhi	TYIT	Button
8	xyz1	pune	TYCS	Button
10	stud2	delhi	TYCS	Button
11	xyz	kanpur	TYIT	Button
12	abc	delhi	TYIT	Button
13	mgf	kanpur	TYIT	Button
5	k2	mumbai	TYIT	Button
6	xyz	delhi	TYIT	Button
9	stud1	kanpur	TYIT	Button

Code:

c) Create a web application to demonstrate GridView paging and Creating own table format using GridView.

WebForm1.aspx----------

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="AWP_9B.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
        </div>
        <asp:GridView ID="GridView1" runat="server" AllowPaging="True" AutoGenerateColumns="False" BackColor="White" BorderColor="#999999"
```

```
BorderStyle="Solid" BorderWidth="1px" CellPadding="3"
DataSourceID="SqlDataSource1" ForeColor="Black" GridLines="Vertical"
OnPageIndexChanging="GridView1_PageIndexChanging"  PageSize="5">
        <AlternatingRowStyle BackColor="#CCCCCC" />
        <Columns>
           <asp:BoundField DataField="sno" HeaderText="sno" SortExpression="sno" />
           <asp:BoundField DataField="name" HeaderText="name" SortExpression="name"
/>
           <asp:BoundField DataField="city" HeaderText="city" SortExpression="city" />
           <asp:BoundField DataField="class" HeaderText="class" SortExpression="class" />
        </Columns>
        <FooterStyle BackColor="#CCCCCC" />
        <HeaderStyle BackColor="Black" Font-Bold="True" ForeColor="White" />
        <PagerStyle BackColor="#999999" ForeColor="Black" HorizontalAlign="Center" />
        <SelectedRowStyle BackColor="#000099" Font-Bold="True" ForeColor="White" />
        <SortedAscendingCellStyle BackColor="#F1F1F1" />
        <SortedAscendingHeaderStyle BackColor="#808080" />
        <SortedDescendingCellStyle BackColor="#CAC9C9" />
        <SortedDescendingHeaderStyle BackColor="#383838" />
     </asp:GridView>
     <p>

        <asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="True"
OnSelectedIndexChanged="DropDownList1_SelectedIndexChanged">
           <asp:ListItem>1</asp:ListItem>
           <asp:ListItem>2</asp:ListItem>
           <asp:ListItem>3</asp:ListItem>
        </asp:DropDownList>

     </p>
     <p>
        </p>
     <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:mydb3ConnectionString %>" SelectCommand="SELECT * FROM
[student]"></asp:SqlDataSource>
  </form>
</body>
</html>
```

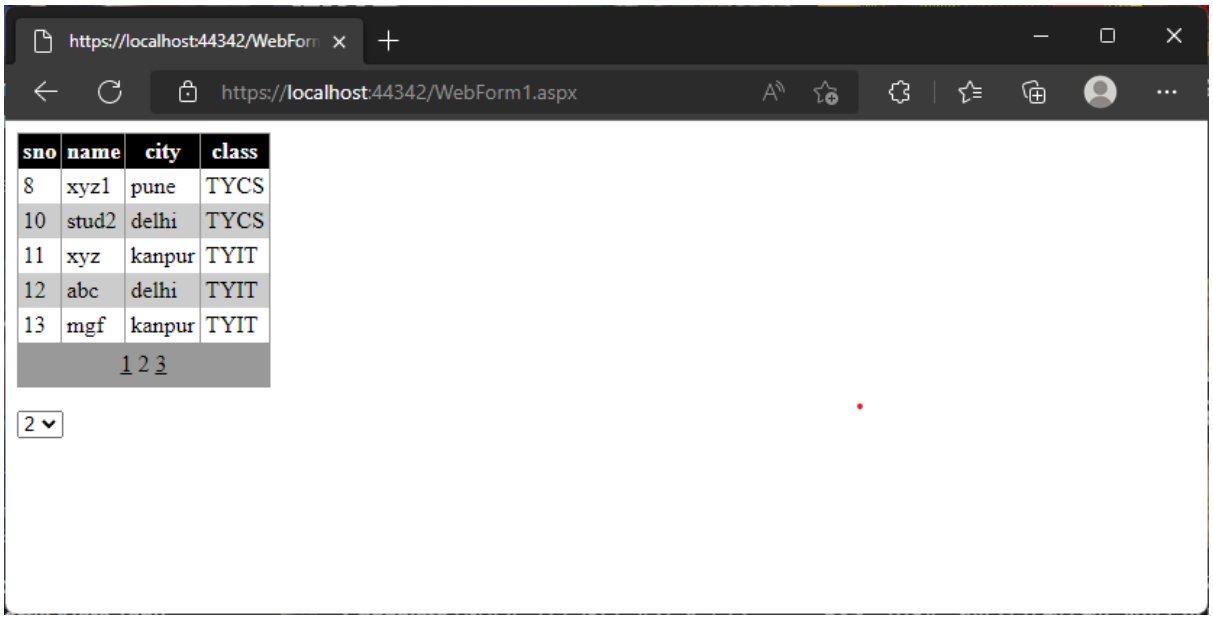
WebForm1.aspx.cs----------

```
using System;
```

Name: Vallabh Tupe
Roll no 70

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


namespace AWP_9B
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {


      }




      protected void GridView1_PageIndexChanging(object sender, GridViewPageEventArgs
e)
      {
         GridView1.PageIndex=e.NewPageIndex;
      }


      protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
      {


         GridView1.PageIndex = DropDownList1.SelectedIndex;
      }
   }
}
```

Name: Vallabh Tupe
Roll no 70



Practical No.10

Aim:

a.Create a web application to demonstrate to reading and writing operations

c.Create a web application to demonstrate the use various AJAX controls

Name: Vallabh Anil Tupe

Roll No:70

Class: T.Y.B.Sc.IT

Sub: Advance web programming

Grade:

Sign:

Name: Vallabh Anil Tupe

Roll No: 70

Aim: a.Create a web application to demonstrate to reading and writing operations

Code:

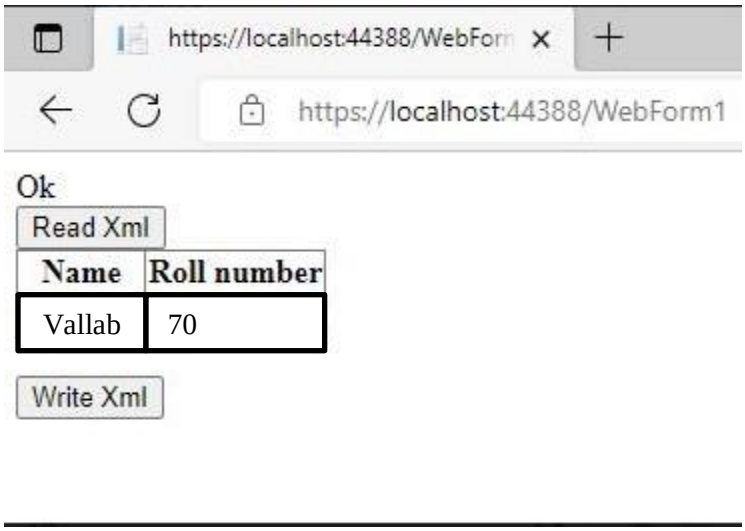
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Xml;

namespace practical10
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
```

```
    {
        DataSet ds = new DataSet();
        ds.ReadXml(Server.MapPath("XMLFile1.xml"));
        GridView1.DataSource = ds.Tables[0].DefaultView;
        GridView1.DataBind();
    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        using (XmlWriter xmlW =
XmlWriter.Create(@"C:\Users\Student\source\repos\practical10\practical10\XMLFile1.xml"))
        {
            xmlW.WriteStartElement("Student");
            xmlW.WriteElementString("name", "vaishnavi");
            xmlW.WriteElementString("roll", "18");
            xmlW.WriteEndElement();
        }
        Response.Write("Ok");
    }
  }
}
```

Output:

Name: Vallabh Anil Tupe

Roll No: 70



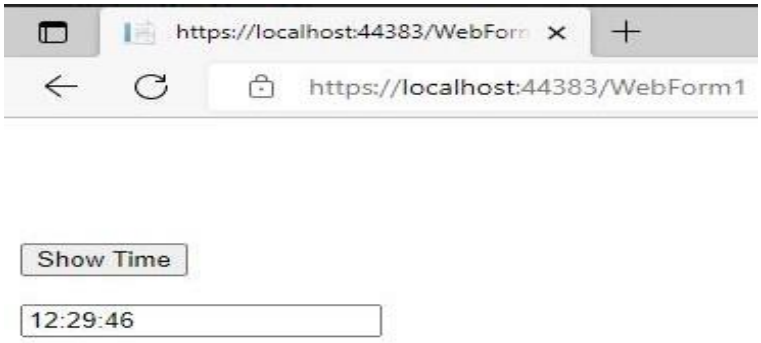
Aim:c.Create a web application to demonstrate the use various AJAX controls.

Code:

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

namespace practical10c
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {
         System.Threading.Thread.Sleep(2000);
      }
```

```
        protected void Button1_Click(object sender, EventArgs e)
        {

TextBox1.Text = DateTime.Now.ToLongTimeString();
        }
    }
 }
```

Output:



Name: Vallabh Anil Tupe

Roll No: 70

Advance web programming

Experiment No. 11

Aim: Programs to create and use DLL.

Name : Vallabh Tupe

Roll no: 70

Class : T.Y.B.Sc.IT

Subject : Advance Web Programming

Grade :

Sign :

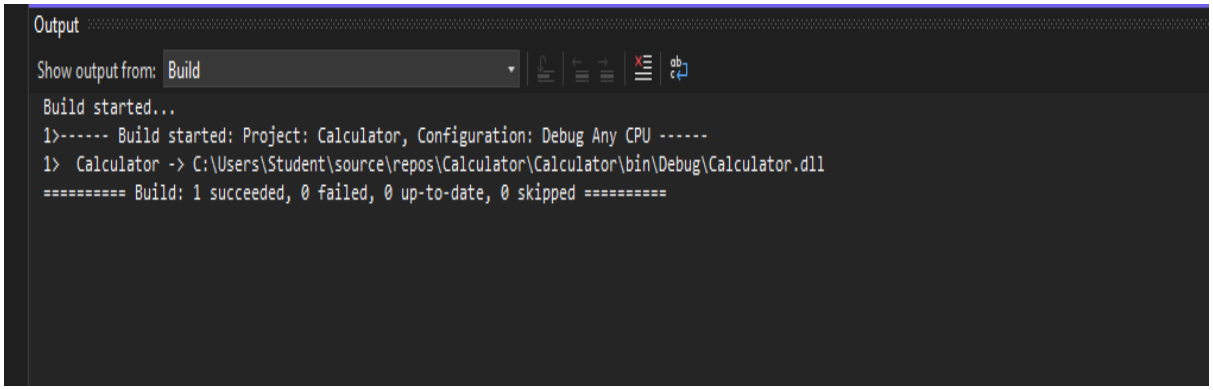
Name: Vallabh Tupe
Roll no: 70

Aim: a] Programs to create and use DLL.

Code(a):

Functions.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Calculator
{
    public static class Functions
    {
        public static double Add(double num1, double num2)
        {
            return num1 + num2;
        }


        public static double Subtract(double num1, double num2)
        {
            return num1 - num2;
        }


        public static double Multiply(double num1, double num2)
        {
            return num1 * num2;
        }


        public static double Divide(double num1, double num2)
        {
            return num1 / num2;
        }
    }
}
```



Name: Vallabh Tupe
Roll no: 70

Calculator app.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using Calculator;

namespace CalculatorApp
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine(Functions.Add(4, 10));
            Console.WriteLine(Functions.Subtract(10, 4));
            Console.WriteLine(Functions.Multiply(4, 10));
            Console.WriteLine(Functions.Divide(10, 2));

            Console.ReadKey();
        }
    }
}
```

Output(a):