ADVANCED WEB TECHNOLOGY & DOT NET

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	all the records from database and display that records on grid view.		
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23	Design WCF service for a simple arithmetic calculator; consume the service using a web client.	21st July 2021	
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25	Design a simple Data-Entry Application(for Customer) with MVC using following:	21st July 2021	

	● Creating & accessing strongly typed View & model ● Automatically implemented properties, ● Html helper Methods, ● Validations, ● Style sheet for highlighting Invalid fields ● Bootstrap functionality		

Prof. Pragati Mestry
(Subject-In-Charge)

Practical 1

Aim: Create a simple window form application for calculator.

CODE:

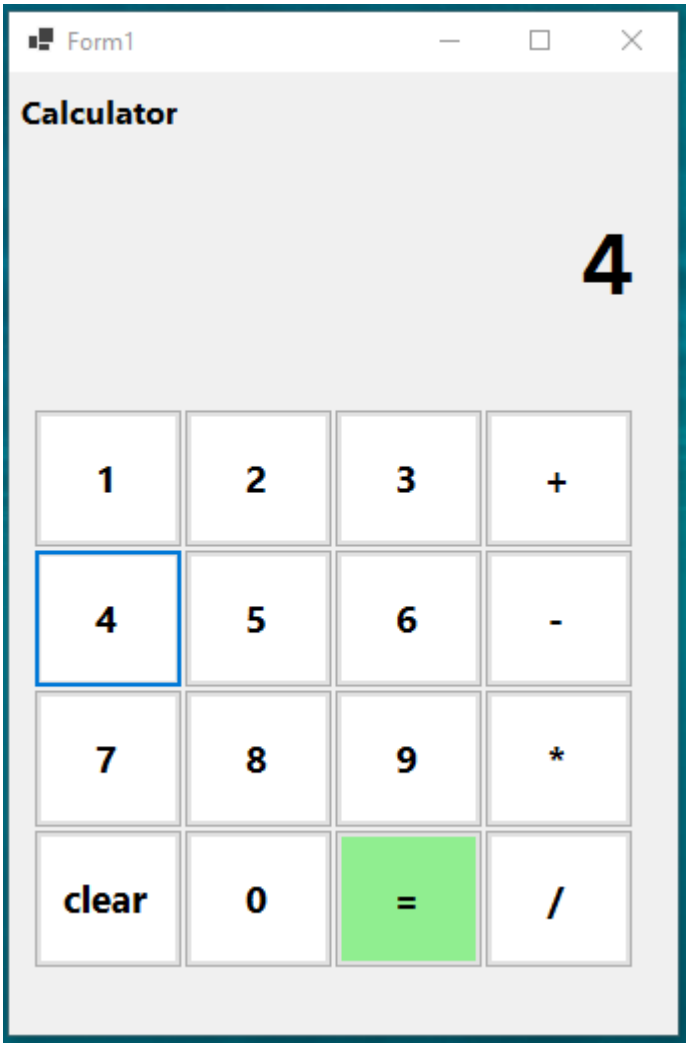
Form1.cs

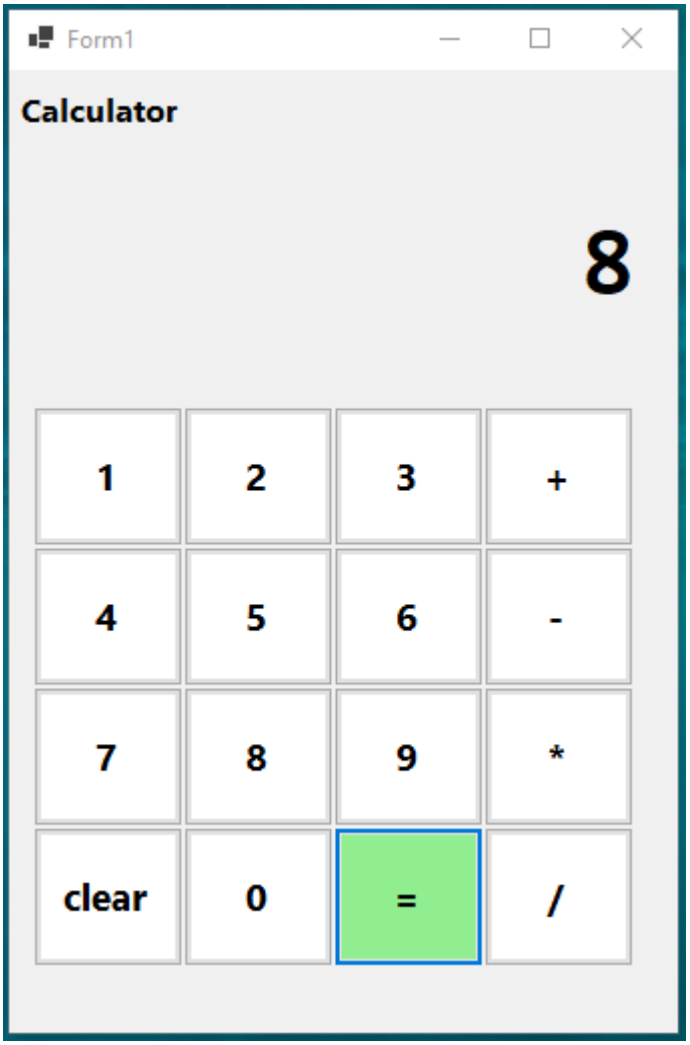
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace mca {
    public partial class Form1:Form {
        int num1, num2;
        int op;
        public Form1() {
            InitializeComponent();
        }

        private void label1_Click(object sender,EventArgs e) {

        }

        private void Form1_Load(object sender,EventArgs e) {

        }



        private void button1_Click(object sender,EventArgs e) {
            textBox1.Text = textBox1.Text + "1";
        }

        private void button2_Click(object sender,EventArgs e) {
            textBox1.Text = textBox1.Text + "2";
        }
```

```
private void button3_Click(object sender,EventArgs e) {
   textBox1.Text = textBox1.Text + "3";
}



private void button8_Click(object sender,EventArgs e) {
   textBox1.Text = textBox1.Text + "4";
}

private void button7_Click(object sender,EventArgs e) {
   textBox1.Text = textBox1.Text + "5";
}



private void button6_Click(object sender,EventArgs e) {
   textBox1.Text = textBox1.Text + "6";
}



private void button12_Click(object sender,EventArgs e) {

   textBox1.Text = textBox1.Text + "7";
}


private void button11_Click(object sender,EventArgs e) {

   textBox1.Text = textBox1.Text + "8";
}

private void button15_Click(object sender,EventArgs e) {
   textBox1.Text = textBox1.Text + "0";
}



private void button10_Click(object sender,EventArgs e) {
   textBox1.Text = textBox1.Text + "9";
}
```

```
private void button4_Click(object sender,EventArgs e) {
    num1 = int.Parse(textBox1.Text);
    textBox1.Text = "";
    op = '+';
}

private void button5_Click(object sender,EventArgs e) {
    num1 = int.Parse(textBox1.Text);
    textBox1.Text = "";
    op = '-';
}

private void button9_Click(object sender,EventArgs e) {
    num1 = int.Parse(textBox1.Text);
    textBox1.Text = "";
    op = '*';
}

private void button13_Click(object sender,EventArgs e) {
    num1 = int.Parse(textBox1.Text);
    textBox1.Text = "";
    op = '/';
}

private void button14_Click(object sender,EventArgs e)
{
    num2 = int.Parse(textBox1.Text);
    switch (op) {
        case '+':
            int result = num1 + num2;
            textBox1.Text = result.ToString();
            break;
        case '-':
            int result1 = num1 - num2;
            textBox1.Text = result1.ToString();
            break;
        case '*':
            int result2 = num1 * num2;
            textBox1.Text = result2.ToString();
            break;
        case '/':
            int result3 = num1 / num2;
```

```
                textBox1.Text = result3.ToString();
                break;

            default:
                textBox1.Text = "";
                break;
        }
    }

    private void button16_Click(object sender,EventArgs e)
    {
        textBox1.Text = "";
    }

  }
}
```




Form1
Calculator
8
1
2
3
+
4
5
6
-
7
8
9
*
clear
0
=
/

Practical 2

Aim: Design account class to handle different operations such as open, deposit, withdrawn, check balance. Design GUI to demonstrate the use of this class.

CODE:

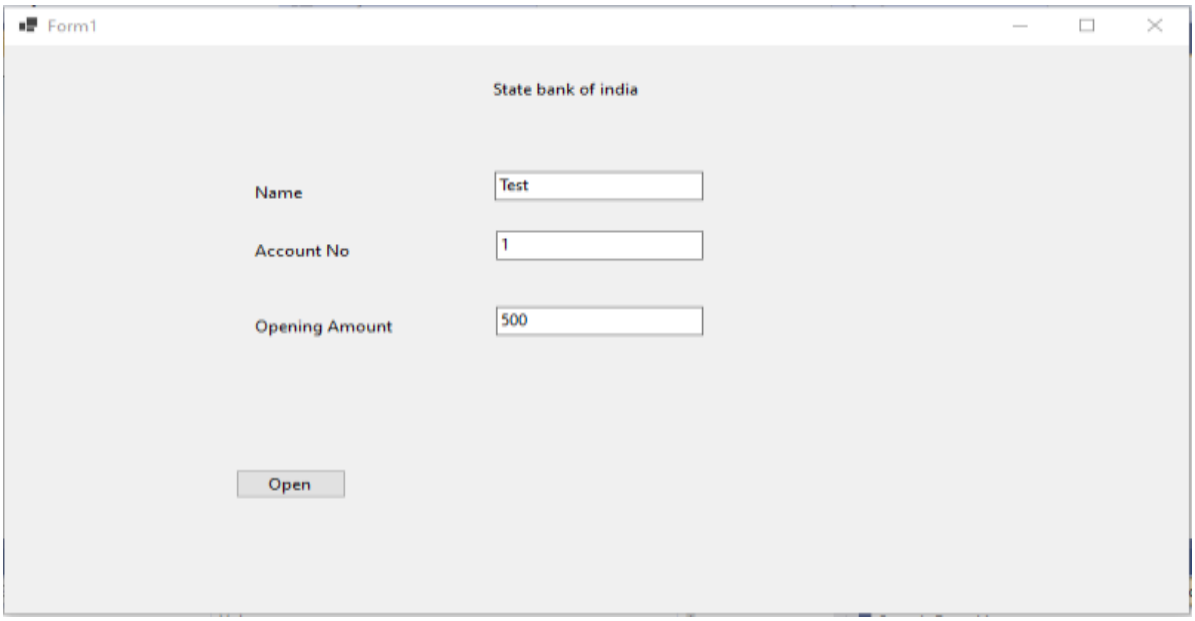
amount.cs

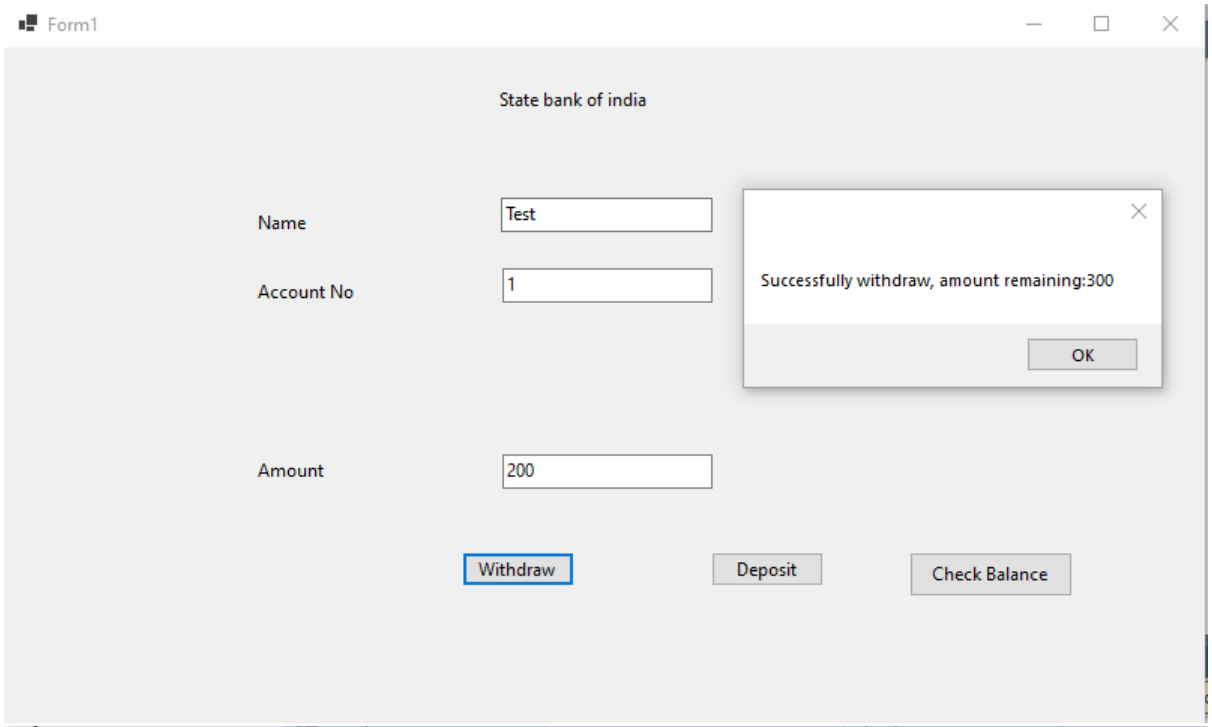
```
using System;
using System.Collections.Generic;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WinFormsApp2 {

    class amount {
        int balance = 0;
        public void open(int amount) {
            int amt = amount;
            balance += amt;
            MessageBox.Show("Successfully open account");
        }
        public void withdraw(int amount) {
            balance -= amount;
            MessageBox.Show("Successfully withdraw, amount remaining:"
+ balance);
        }
        public void deposite(int amount) {
            balance += amount;
            MessageBox.Show("Successfully deposited, balance amount:" +
balance);
        }
        public void checkbalance() {

            MessageBox.Show("Available balance is" + balance);
        }
    }
}
```

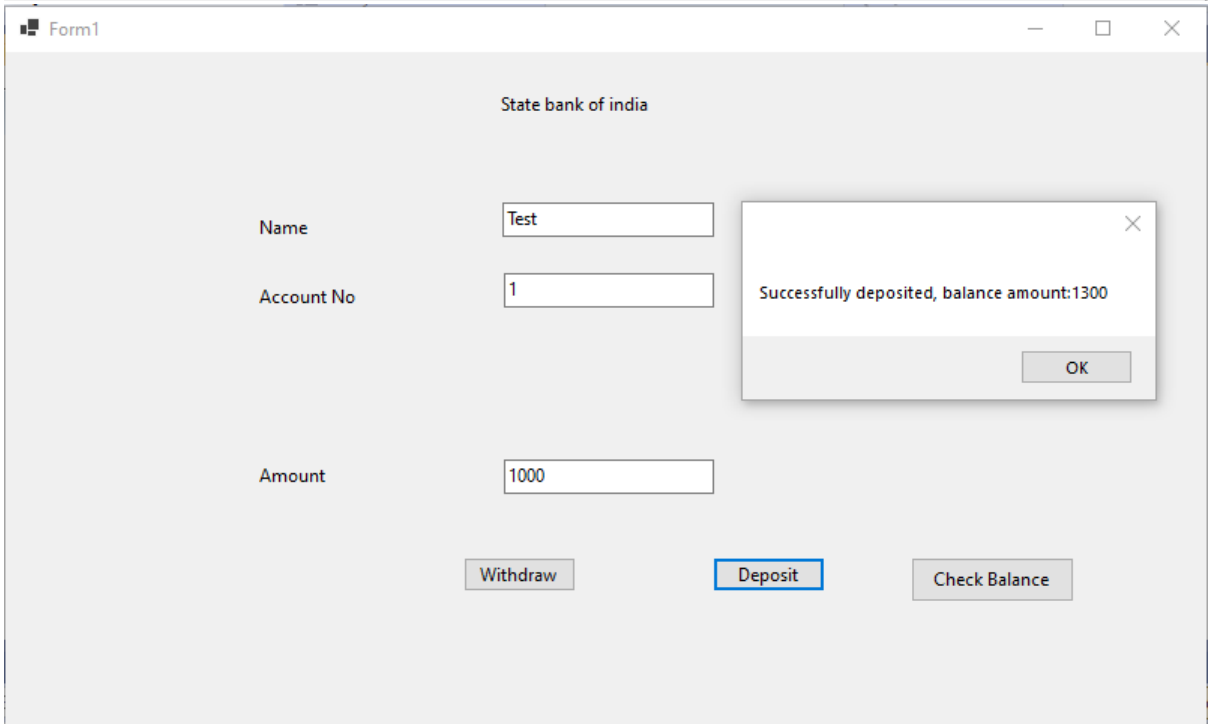
Form1.cs

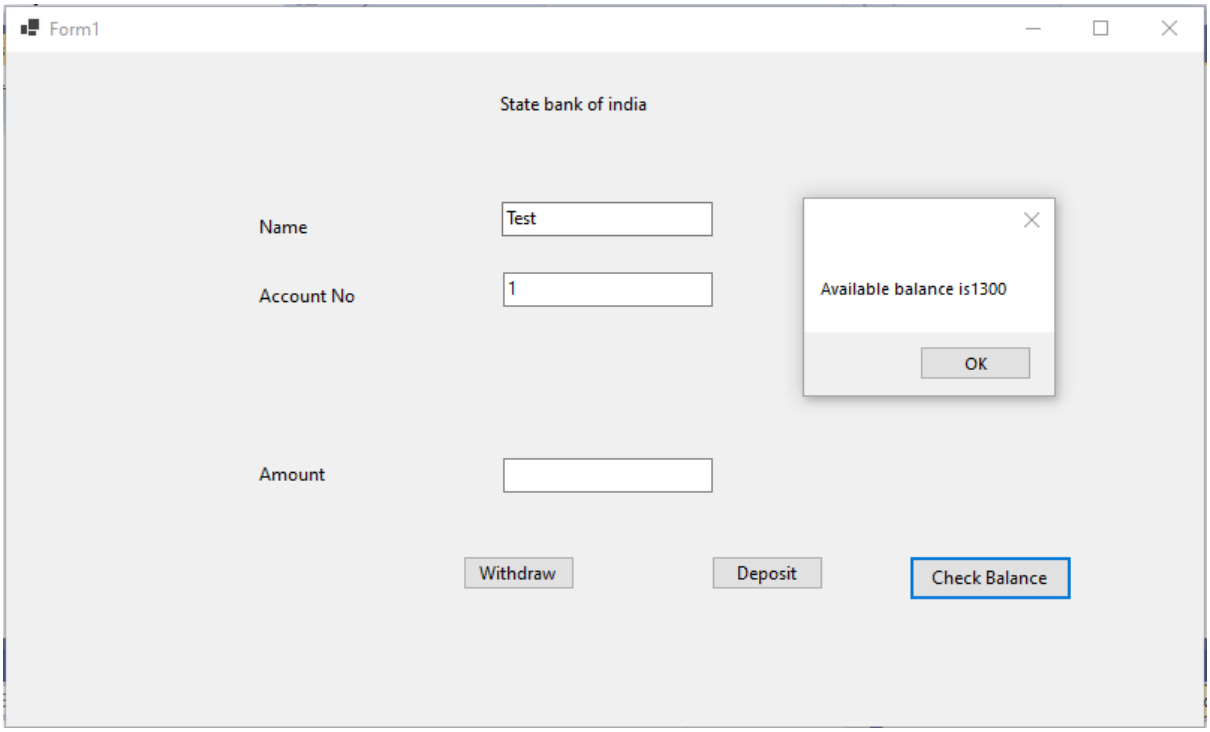
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WinFormsApp2 {
    public partial class Form1:Form {
        amount obj = new amount();
        public Form1() {
            InitializeComponent();
        }

        private void label2_Click(object sender,EventArgs e) {

        }

        private void Form1_Load(object sender,EventArgs e) {
            button2.Visible = false;
            button3.Visible = false;
            button4.Visible = false;
            label5.Visible = false;
            textBox4.Visible = false;
        }

        private void label1_Click(object sender,EventArgs e) {

        }

        private void button3_Click(object sender,EventArgs e) {
            obj.deposite(int.Parse(textBox4.Text));
            textBox4.Text = "";
        }

        private void textBox4_TextChanged(object sender,EventArgs e) {

        }

        private void button1_Click(object sender,EventArgs e) {
```

```
            obj.open(int.Parse(textBox3.Text));
            button2.Visible = true;
            button3.Visible = true;
            button4.Visible = true;
            label5.Visible = true;
            textBox4.Visible = true;
            button1.Visible = false;
            label4.Visible = false;
            textBox3.Visible = false;
        }

        private void button2_Click(object sender,EventArgs e) {
            obj.withdraw(int.Parse(textBox4.Text));
            textBox4.Text = "";
        }

        private void button4_Click(object sender,EventArgs e) {
            obj.checkbalance();
        }
    }
}
```




Form1
State bank of india
Name
Test
Account No
1
Successfully withdraw, amount remaining:300
OK
Amount
200
Withdraw
Deposit
Check Balance


Form1
State bank of india
Name
Test
Account No
1
Successfully deposited, balance amount:1300
OK
Amount
1000
Withdraw
Deposit
Check Balance



Practical 3

Aim: Design a GUI to demonstrate Single Inheritance.

CODE

basicinfo.cs

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

namespace SingleInheritance {
    public class basicinfo {
        public string fn, mn, ln;
        public basicinfo() { }
        public basicinfo(string f,string m,string l) {
            fn = f;
            mn = m;
            ln = l;
```

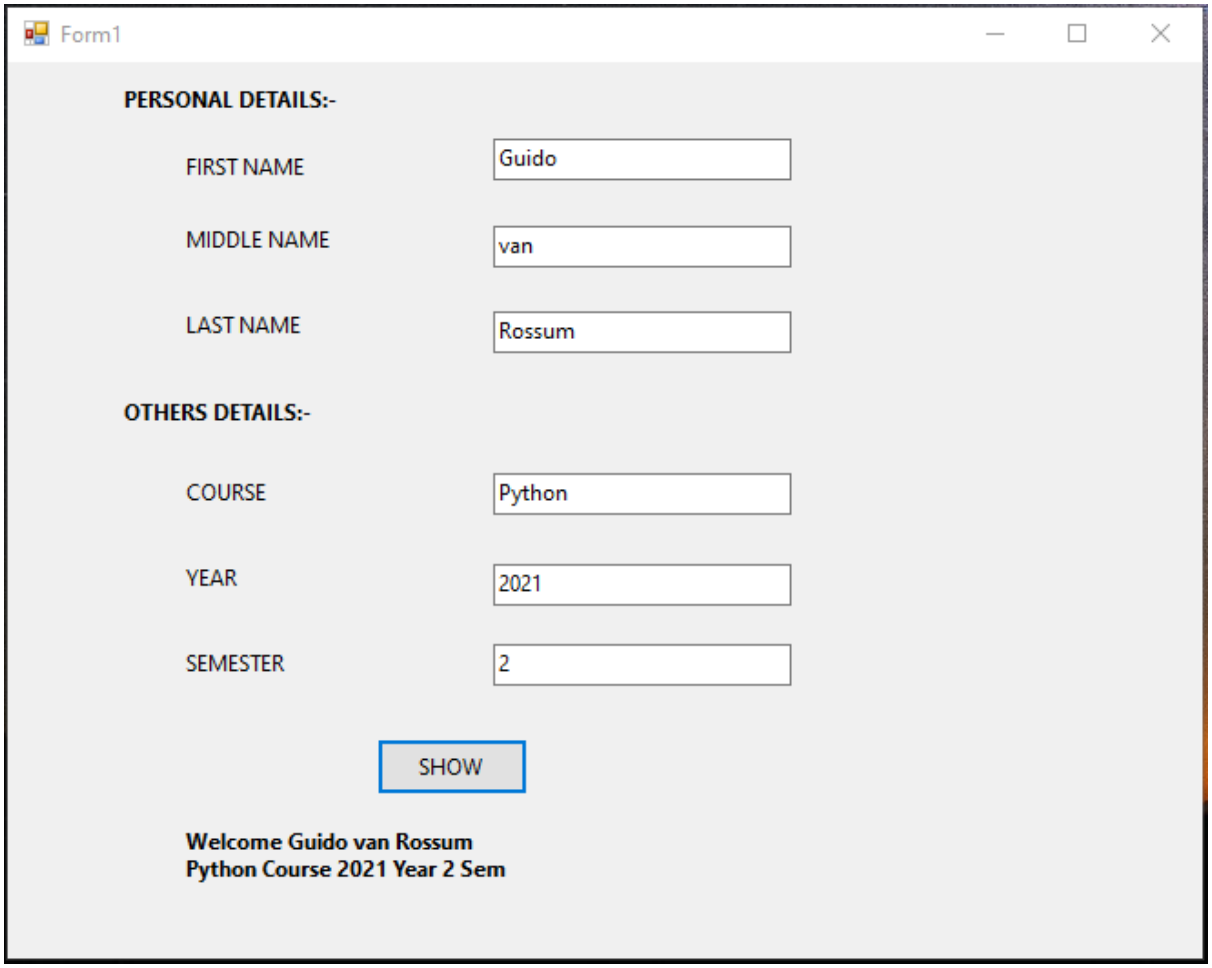
```
        }

        public string processbasic() {
            return "Welcome " + fn + " " + mn + " " + ln;
        }
    }
}
```

addinfo.cs

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

namespace SingleInheritance
{
   public class addinfo : basicinfo
    {
        string course;
        int year, sem;
        public addinfo(string fnm, string mnm, string lnm, string cr, int yr, int
s)
        {
            fn = fnm;
            mn = mnm;
            ln = lnm;
            course = cr;
            year = yr;
            sem = s;
        }
        public string processadd()
        { return "\n" + course + " Course " + year + " Year " + sem + " Sem
"; }
    }
}
```

Form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace SingleInheritance
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            addinfo inf = new addinfo(textBox1.Text, textBox2.Text,
textBox3.Text, textBox4.Text, int.Parse(textBox5.Text),
int.Parse(textBox6.Text));
            label9.Text = inf.processbasic() + inf.processadd();
        }
    }
}
```



Name : Sandeep Vishwakarma

Roll No : 58

Practical 4

Aim: Design a GUI to demonstrate Multiple Inheritance.

CODE:

Form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Multiple_Inheritance
{
   public partial class Form1 : Form
   {
      int ar;
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object sender, EventArgs e)
      {

      }

      private void label1_Click(object sender, EventArgs e)
      {

      }

      private void button1_Click(object sender, EventArgs e)
      {
         rec a = new rec(Convert.ToInt32(textBox1.Text),
Convert.ToInt32(textBox2.Text));
         ar = a.getarea();
         label4.Text = "Area is :" + ar;
      }
```

```
        private void label4_Click(object sender, EventArgs e)
        {

        }

        private void button2_Click(object sender, EventArgs e)
        {
            rec a = new rec(Convert.ToInt32(textBox1.Text),
Convert.ToInt32(textBox2.Text));
            ar = a.getarea();
            int cost = a.getcost(ar);
            label3.Text+= "\n Cost is: " + cost;

        }

        private void label3_Click(object sender, EventArgs e)
        {

        }
    }
}
```

Cost.cs

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

namespace Multiple_Inheritance
{
    public interface Cost
    {
        int getcost(int a);
    }
}
```

Rec.cs

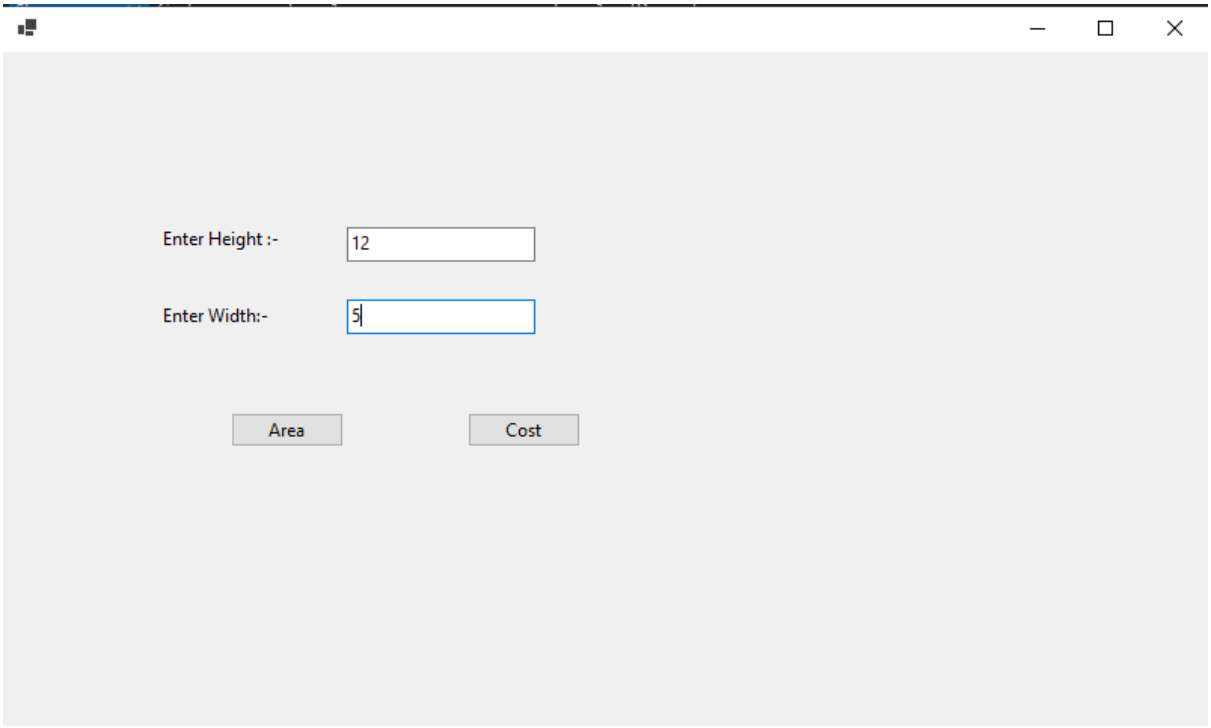
```
using System;
using System.Collections.Generic;
using System.Linq;
```

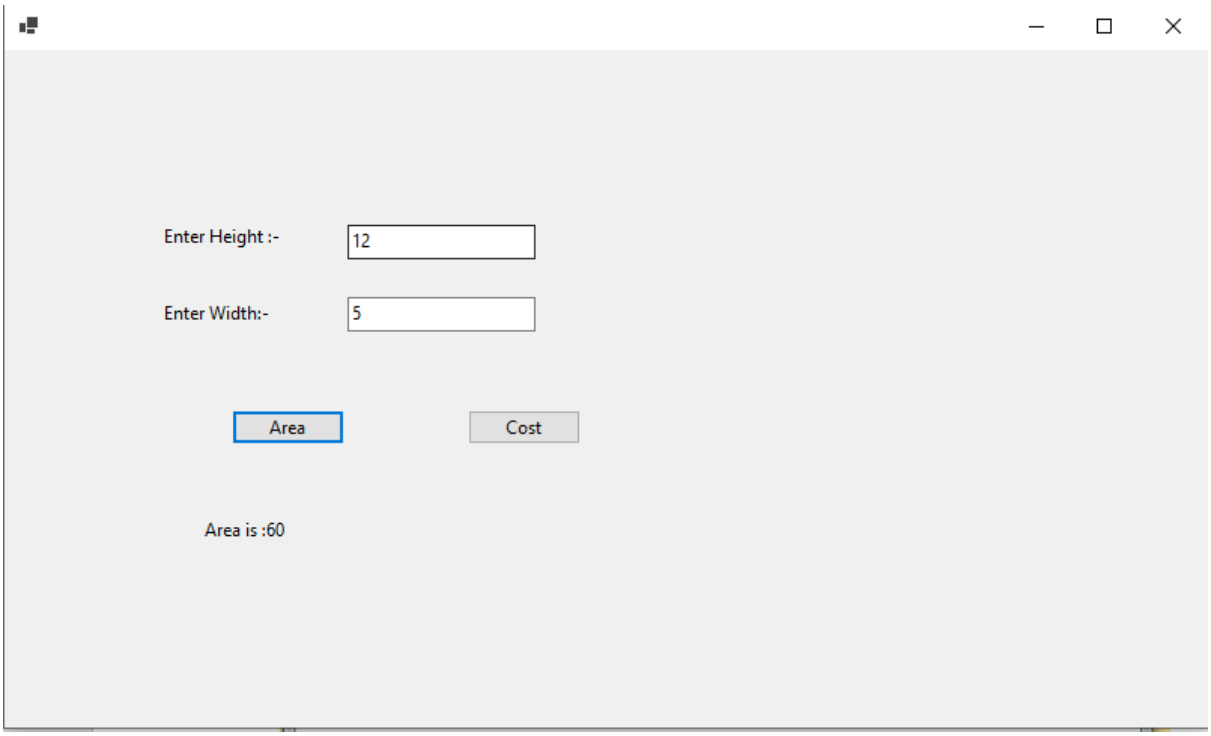
```
using System.Text;
using System.Threading.Tasks;

namespace Multiple_Inheritance
{
public class rec : Shape, Cost
   {
      public rec(int a, int b) : base(a, b) { }

      public int getarea()
      { return height * width; }

      public int getcost(int a)
      { return a * 30; }
   }
}
```

Shape.cs

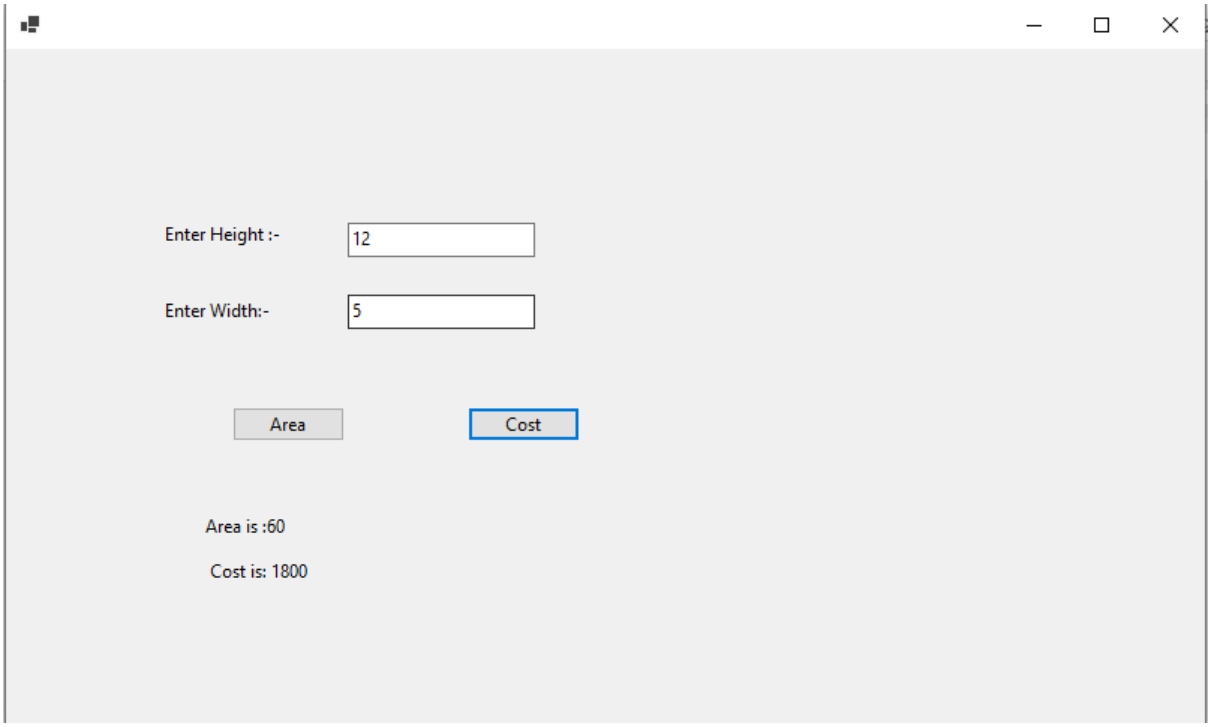
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Multiple_Inheritance
{
   public class Shape
   {
      public int height, width;
      public Shape(int m, int n)
      {
         height = m;
         width = n;
      }
   }
}
```

Output:-





Name : Sandeep Vishwakarma Roll No : 58


Enter Height :-
12
Enter Width:-
5
Area
Cost
Area is :60
Cost is: 1800

Practical 5

Aim: Design a GUI to demonstrate runtime polymorphism using abstract class.

CODE:

Form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Abstract_Class
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void textBox1_TextChanged(object sender, EventArgs e)
        {

        }

        private void button1_Click(object sender, EventArgs e)
        {
            int a = Convert.ToInt32(textBox1.Text);
            int b = Convert.ToInt32(textBox2.Text);
            rectangle r = new rectangle();
            r.set(a, b);
            double c = r.area();
            label3.Text = "Area is :" + Convert.ToString(c);

        }
```

```
        private void Form1_Load(object sender, EventArgs e)
        {

        }
    }
}
```

Shape.cs

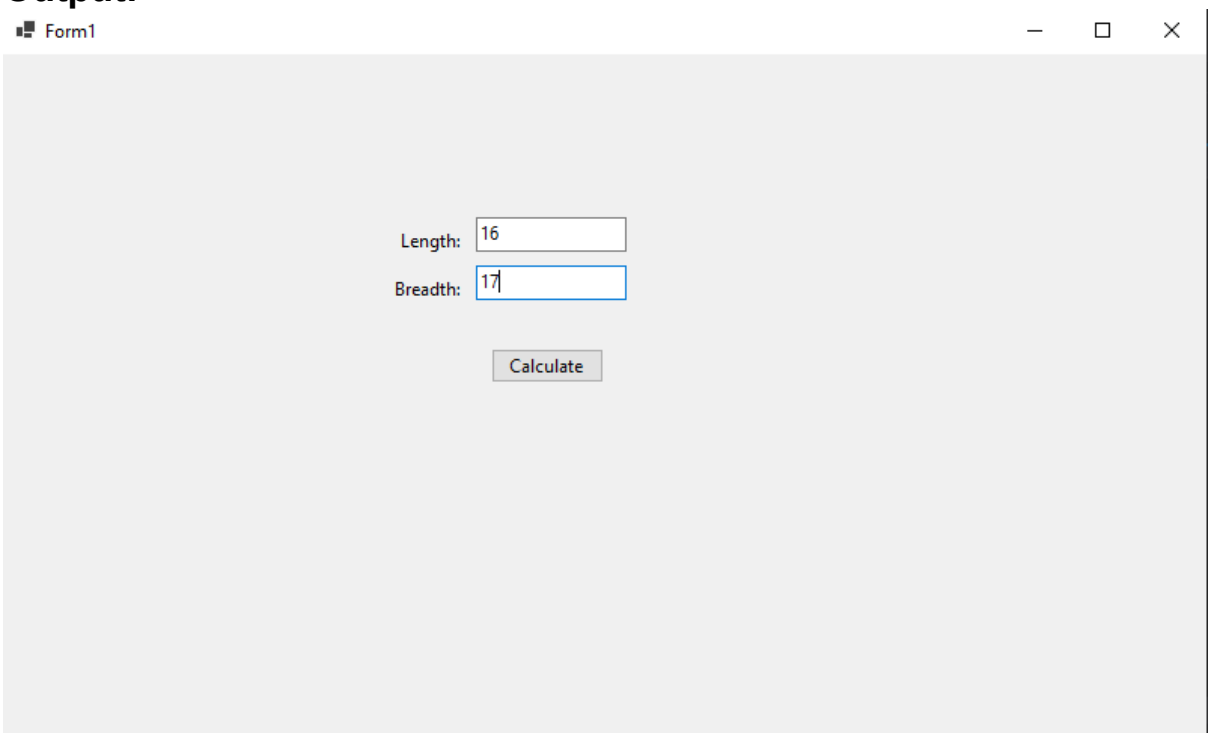
```
using System;
using System.Collections.Generic;
using System.Text;

namespace Abstract_Class
{
    abstract class Shape
    {
        public int length;
        public int width;
        public void set(int a = 0, int b = 0)
        {
            length = a;
            width = b;
        }
        public abstract int area();
    }

    class rectangle : Shape
    {
        public override int area()
        {
            return (width * length);
        }

    }
}
```

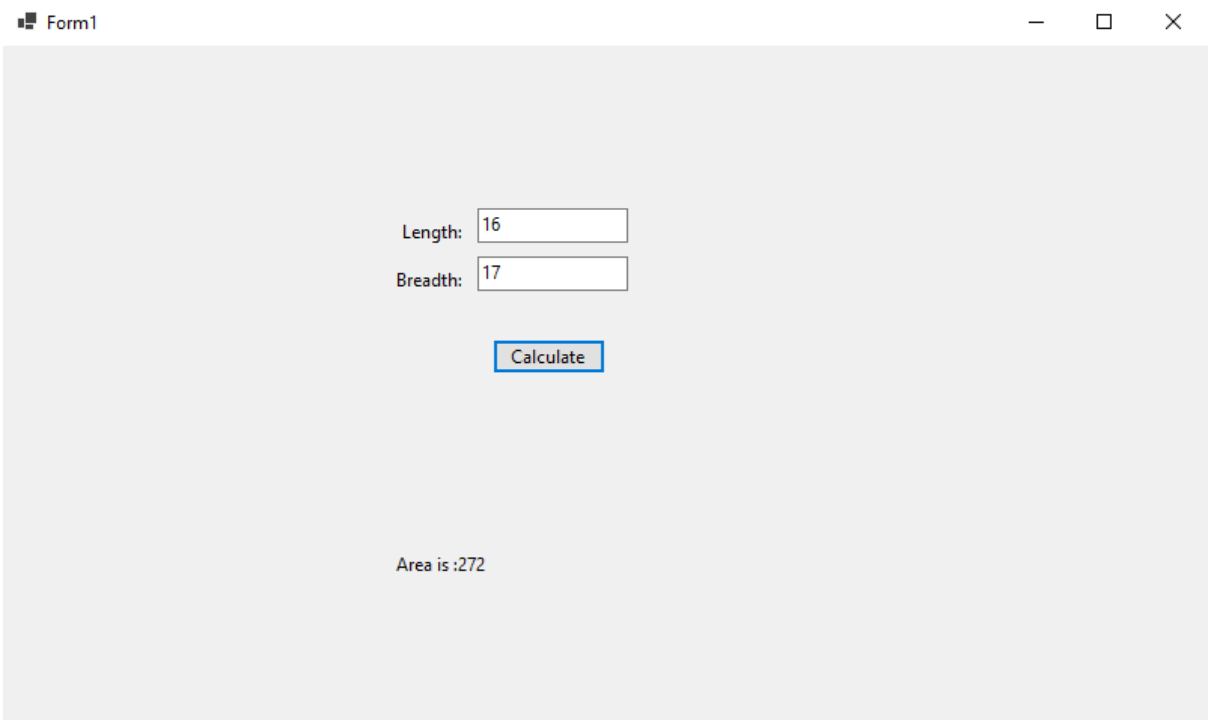
Rectangle.cs

```
using System;
using System.Collections.Generic;
using System.Text;
```

```
namespace Abstract_Class
{
    class Rectangle : Shape
    {
        public override int area()
        {
            return (width * length);
        }
    }
}
```

Output:-





Name : Sandeep Vishwakarma

Roll No : 58

Practical 6

Aim. Create a simple Web application to Display your Details entered in registration form using advanced controls.

CODE:

registration.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="registration.aspx.cs"
Inherits="RegistrationForm.registration" %>
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style2 {
            width: 41%;
            height: 267px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
    <div>

                <br />
        <table class="auto-style2">
            <tr>
                <td>
                    <asp:Label ID="Label1" runat="server"
Text="Name"></asp:Label>

                </td>
                <td>:</td>
                <td>

                    <asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox>



                </td>
```

```
            </tr>
            <tr>
                <td>

                    <asp:Label ID="Label2" runat="server"
Text="Password"></asp:Label>

                </td>
                <td>:</td>
                <td>

                    <asp:TextBox ID="TextBox2" runat="server"
TextMode="Password"></asp:TextBox>

                </td>
            </tr>
            <tr>
                <td>

                    <asp:Label ID="Label3" runat="server" Text="Confirm
Password"></asp:Label>

                </td>
                <td>:</td>
                <td>

                    <asp:TextBox ID="TextBox3" runat="server"
TextMode="Password"></asp:TextBox>

                </td>
            </tr>
            <tr>
                <td>
```

```
                <asp:Label ID="Label4" runat="server"
Text="City"></asp:Label>

                </td>
            <td>:</td>
            <td>

                <asp:DropDownList ID="DropDownList1" runat="server">
                    <asp:ListItem>Mumbai</asp:ListItem>
                    <asp:ListItem>Pune</asp:ListItem>
                    <asp:ListItem>Ratnagiri</asp:ListItem>
                    <asp:ListItem>Raigad</asp:ListItem>
                </asp:DropDownList>



                </td>
        </tr>
        <tr>
            <td>



                <asp:Label ID="Label5" runat="server"
Text="Gender"></asp:Label>

                </td>
            <td>:</td>
            <td>

                <asp:RadioButton ID="RadioButton1" runat="server"
GroupName="gen" Text="Male" />
                <asp:RadioButton ID="RadioButton2" runat="server"
GroupName="gen" Text="Female"/>

                </td>
        </tr>
        <tr>
            <td>

                <asp:Label ID="Label6" runat="server"
Text="Gmail"></asp:Label>
```

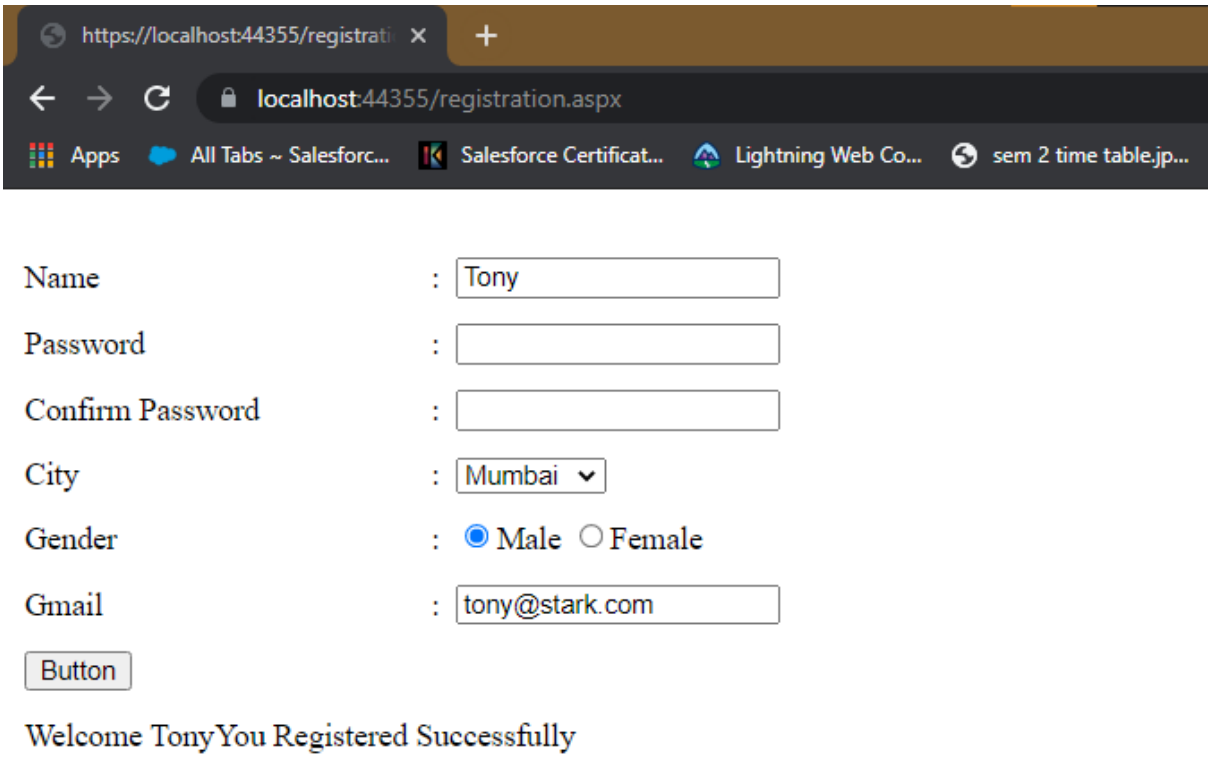
```
                </td>
            <td>:</td>
            <td>
                <asp:TextBox ID="TextBox4" runat="server"
TextMode="Email"></asp:TextBox>
            </td>
        </tr>
        <tr>
            <td colspan="3">
              <asp:Button ID="Button1" runat="server" Text="Button"
OnClick="Button1_Click" />

            </td>
        </tr>
        <tr>
            <td colspan="3">
                <asp:Label ID="Label7" runat="server"
Text=""></asp:Label>
            </td>
        </tr>
    </table>

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

registration.aspx.cs

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

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

    }

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

```
            Label7.Text = "Welcome  " + TextBox1.Text + "You Registered Successfully";
        }
    }
}
```

OUTPUT:



Practical 7

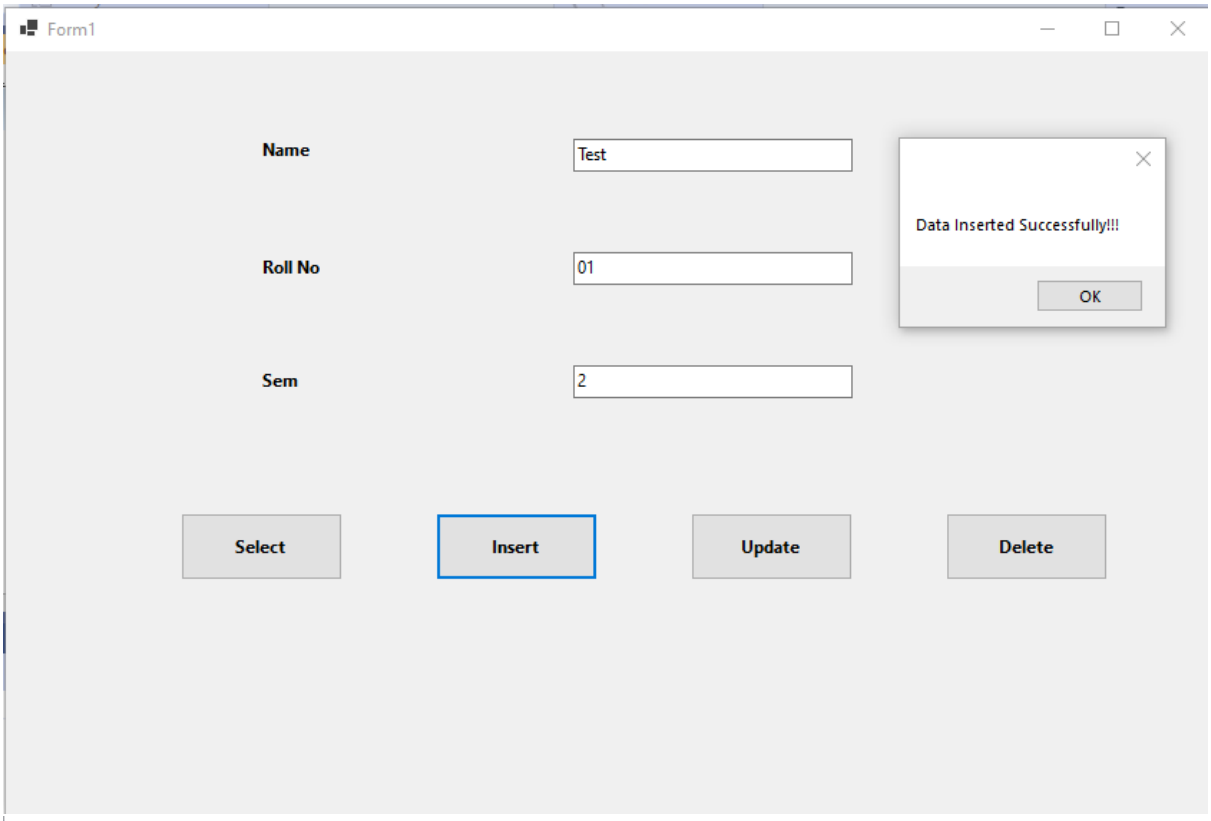
Aim: Develop a windows application to create StudentInfo (Name, RollNo, Sem) table & add, delete, modify, search records(Connected Architecture)

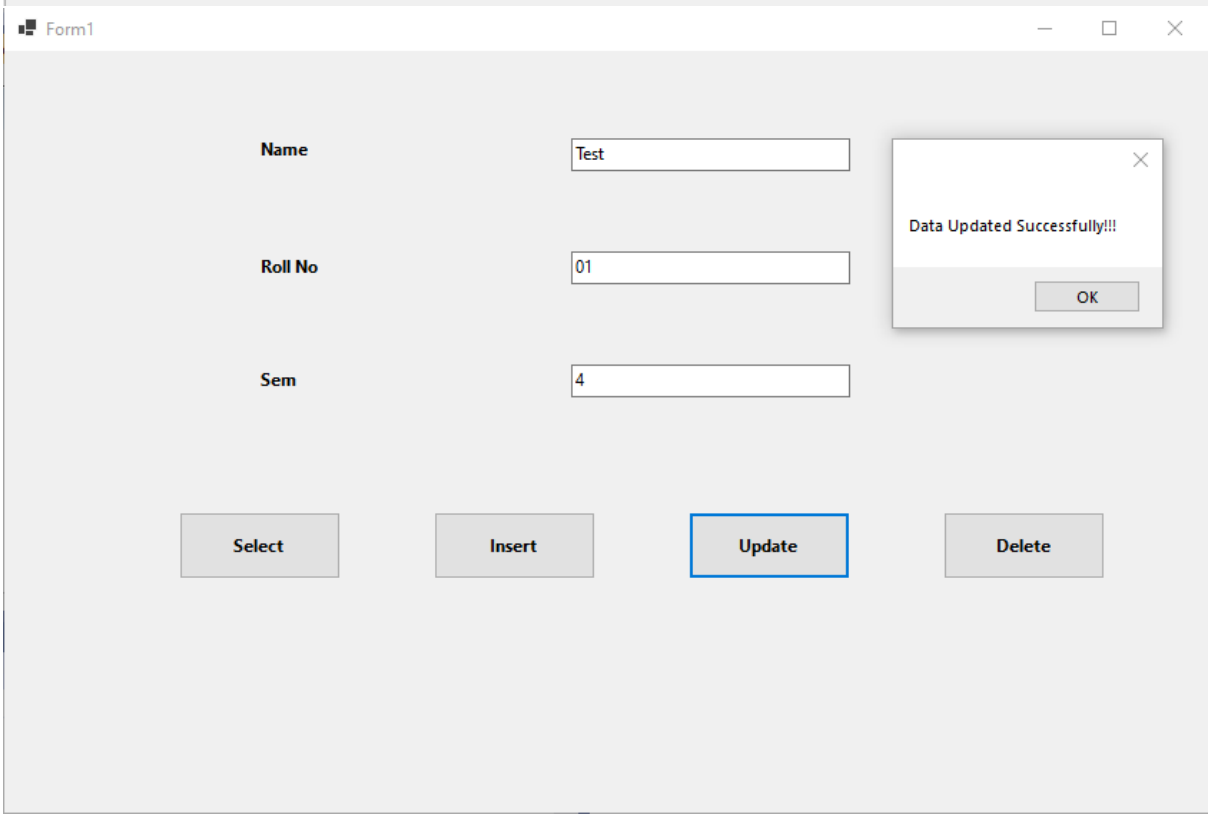
CODE:

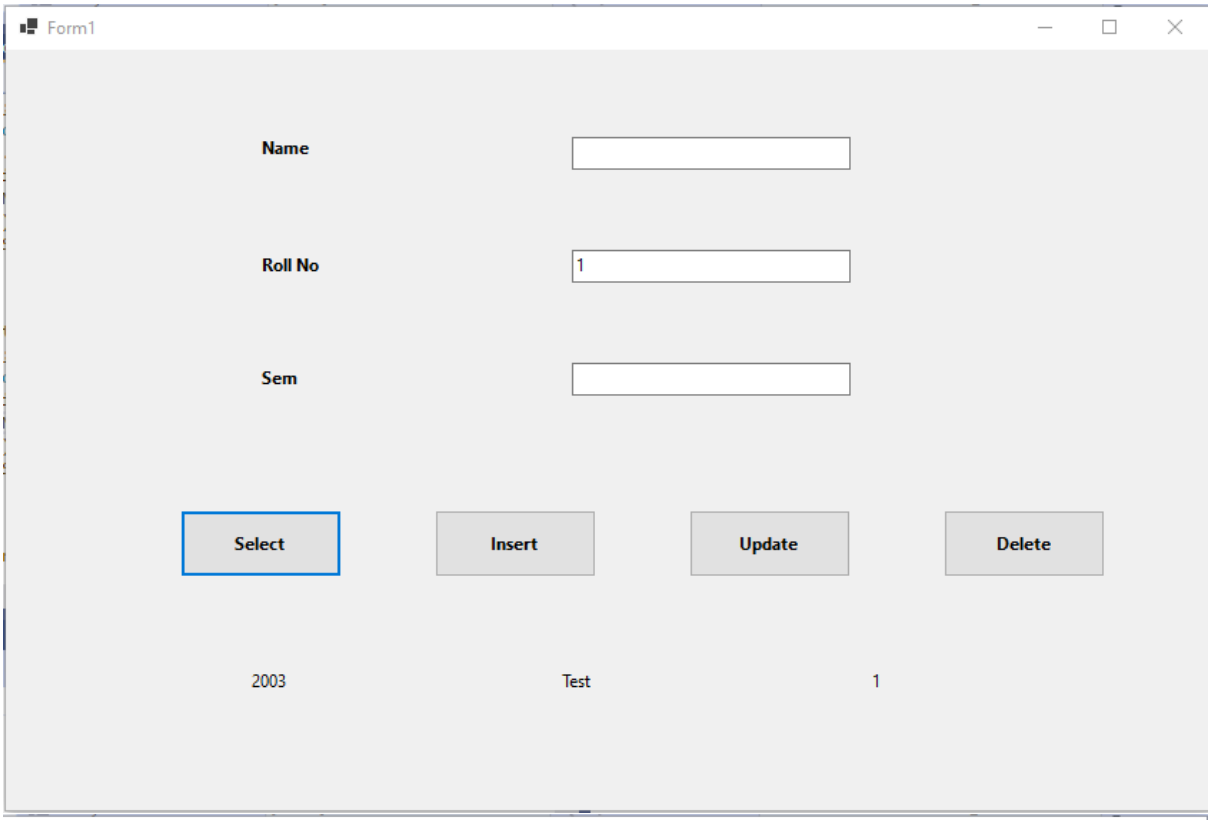
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace StudentInfo {
    public partial class Form1:Form {
        SqlConnection conn = new SqlConnection();
        SqlDataReader dr;
        SqlCommand cmd;
        public Form1() {
            InitializeComponent();
            conn.ConnectionString = "Data
Source=(localdb)\\MyInstance;Initial Catalog=master;Integrated
Security=True";
        }

        private void button1_Click(object sender,EventArgs e) {
            label4.Text = "";
            label5.Text = "";
            label6.Text = "";

            //int roll = Convert.ToInt16(textBox2.Text);
            conn.Open();
            cmd = new SqlCommand("Select * from Studentinfo where roll ="
+ textBox2.Text);
            cmd.Connection = conn;
            dr = cmd.ExecuteReader();
            while (dr.Read()) {
                label4.Text += dr[0].ToString() + "\n";

                label5.Text += dr[1].ToString() + "\n";
```

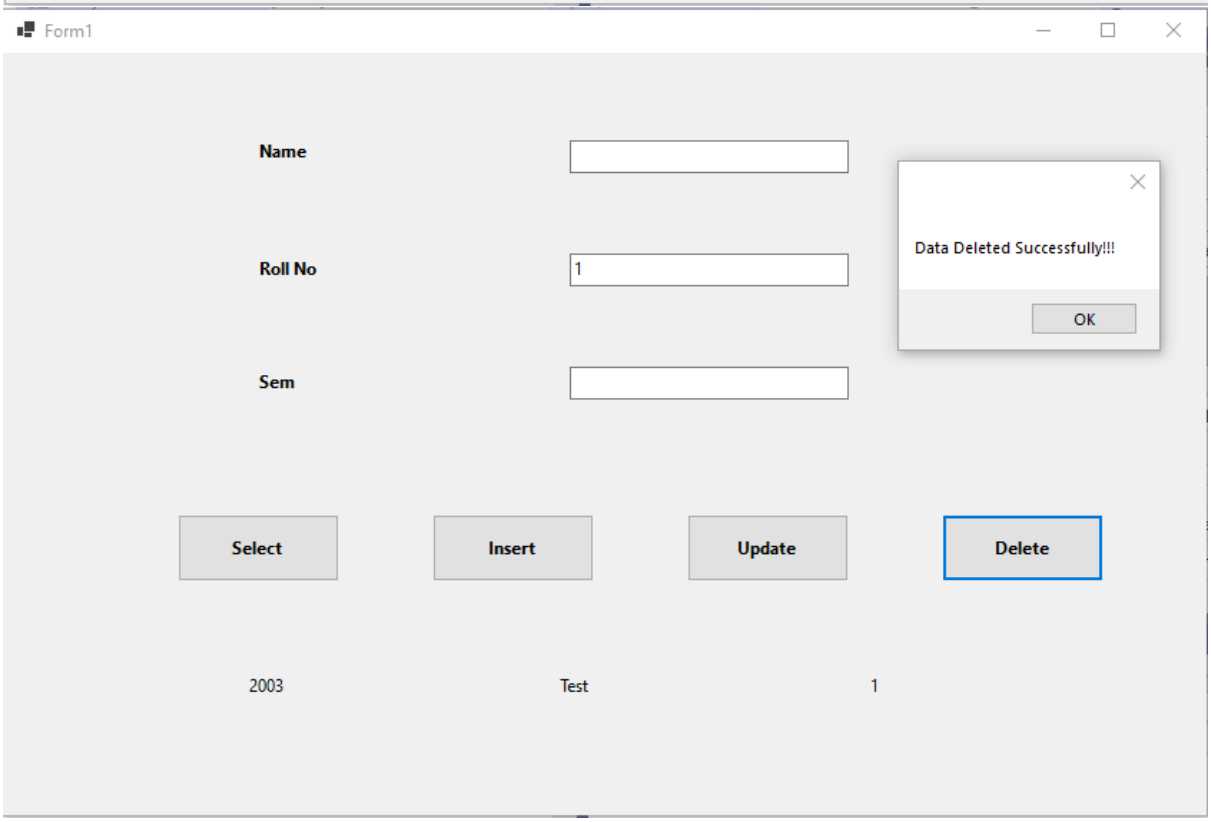
```
            label6.Text += dr[2].ToString() + "\n";

        }
        conn.Close();

    }

    private void button2_Click(object sender,EventArgs e) {
        conn.Open();
        cmd = new SqlCommand("insert into StudentInfo values('" +
textBox1.Text + "'," + textBox2.Text + "," + textBox3.Text + ")");
        cmd.Connection = conn;
        cmd.ExecuteNonQuery();
        conn.Close();
        MessageBox.Show("Data Inserted Successfully!!!");
    }

    private void button3_Click(object sender,EventArgs e) {
        conn.Open();
        cmd = new SqlCommand("update StudentInfo set Name='" +
textBox1.Text + "',Sem=" + textBox3.Text + " where roll= " +
textBox2.Text);
        cmd.Connection = conn;
        cmd.ExecuteNonQuery();
        conn.Close();
        MessageBox.Show("Data Updated Successfully!!!");
    }

    private void button4_Click(object sender,EventArgs e) {
        conn.Open();
        cmd = new SqlCommand("delete from StudentInfo where roll = "
+ textBox2.Text);
        cmd.Connection = conn;
        cmd.ExecuteNonQuery();
        conn.Close();
        MessageBox.Show("Data Deleted Successfully!!!");
    }

    private void Form1_Load(object sender,EventArgs e) {

    }
  }
```

}


Form1
Name
Test
Roll No
01
Sem
2
Data Inserted Successfully!!!
OK
Select
Insert
Update
Delete


Form1
Name
Test
Roll No
01
Sem
4
Data Updated Successfully!!!
OK
Select
Insert
Update
Delete


Form1
Name
Roll No
1
Sem
Select
Insert
Update
Delete
2003
Test
1


Form1
Name
Roll No
1
Sem
Data Deleted Successfully!!!
OK
Select
Insert
Update
Delete
2003
Test
1

Practical 5

Aim: Design a program for multiple choice quiz application. Store at least 3 questions with their 4 optional answers, the correct answer & marks assigned in sql database table. Calculate total score & display result in message box on click of submit button. (Disconnected Architecture)

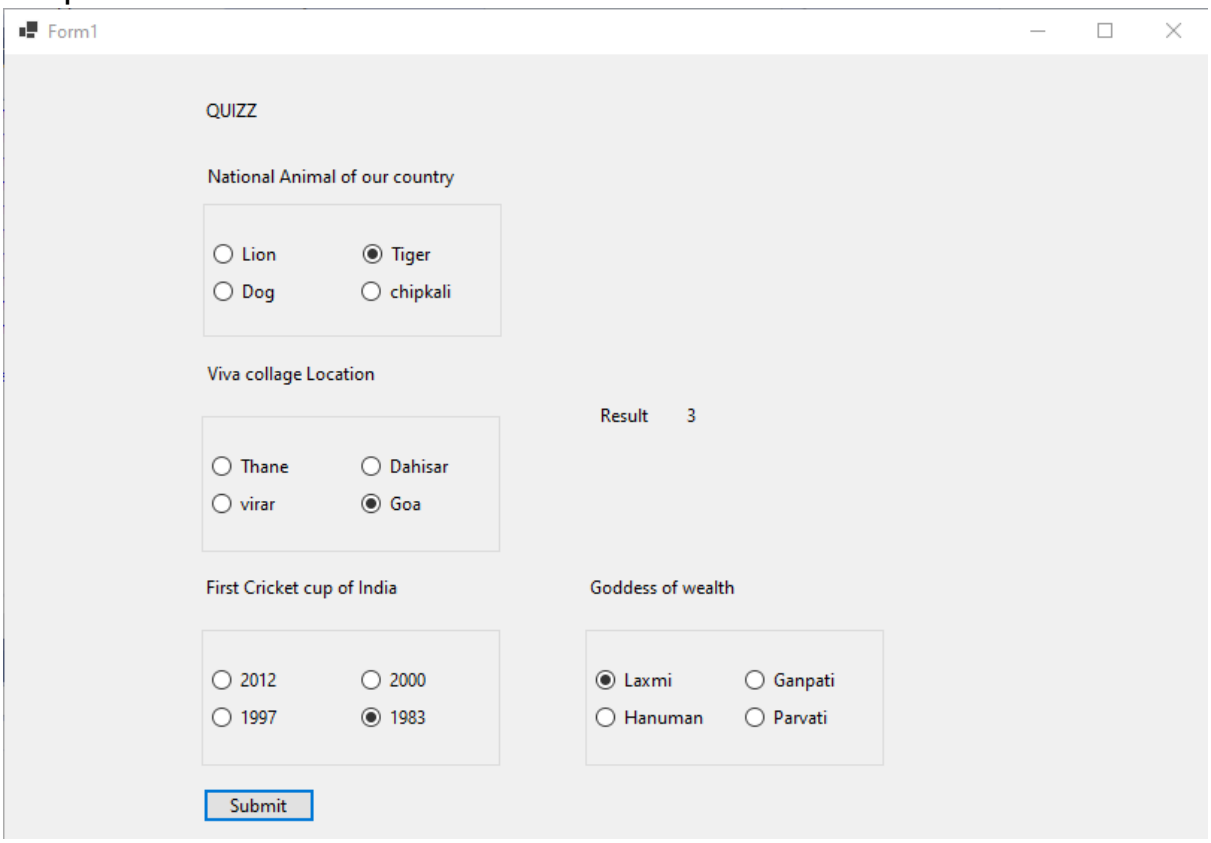
CODE:

Form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data.SqlClient;
using System.Windows.Forms;

namespace Quizz_App
{
   public partial class Form1 : Form
   {
      SqlConnection con = new SqlConnection();
      public Form1()
      {
         InitializeComponent();
         con.ConnectionString = "Data
Source=(localdb)\\MyInstance;Initial Catalog=master;Integrated
Security=True";
         con.Open();
      }

      private void Form1_Load(object sender, EventArgs e)
      {

      }

      private void button1_Click(object sender, EventArgs e)
      {
         string q = "select ans from quizz";
         SqlCommand cm = new SqlCommand(q, con);
```

```
            SqlDataAdapter da = new SqlDataAdapter(cm);
            DataTable dt = new DataTable();
            da.Fill(dt);
            int count = 0;
               foreach (DataRow row in dt.Rows)
               {
                  if (radioButton2.Checked)
                  {
                     if (radioButton2.Text == row["ans"].ToString())
                     { count++; }
                  }
                  if (radioButton6.Checked)
                  {
                     if (radioButton6.Text == row["ans"].ToString())
                     { count++; }
                  }
                  if (radioButton9.Checked)
                  {
                     if (radioButton9.Text == row["ans"].ToString())
                     { count++; }
                  }
                  if (radioButton16.Checked)
                  {
                     if (radioButton16.Text == row["ans"].ToString())
                     { count++; }
                  }
               }
            label7.Text = count.ToString();
            }
      }
}
```

Output:


Form1
QUIZZ
National Animal of our country
Lion
Tiger
Dog
chipkali
Viva collage Location
Result 3
Thane
Dahisar
virar
Goa
First Cricket cup of India
Goddess of wealth
2012
2000
1997
1983
Laxmi
Ganpati
Hanuman
Parvati
Submit

Practical 9

9. Write a program on LinqToSQLClass. Show select, selectWith, insert, update, delete command on Course\Product Table.

Code :

ProductData.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Product</title>
    <style type="text/css">
        .auto-style2 {
            width: 229px;
        }
        .auto-style3 {
            width: 118px;
        }
        .auto-style4 {
            width: 420px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <br />
        <br />
        <table>
            <tr>
                <td class="auto-style2">Enter Product_Name</td>
                <td class="auto-style3">:</td>
                <td class="auto-style4"><asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox></td>
            </tr>
            <tr>
                <td class="auto-style2">Enter Product_Price</td>
```

```
            <td class="auto-style3">:</td>
            <td class="auto-style4"><asp:TextBox ID="TextBox2"
runat="server"></asp:TextBox></td>
        </tr>
        <tr>
            <th class="auto-style2"><asp:Button ID="Button1"
runat="server" Text="Add" OnClick="Button1_Click1" /></th>
            <th class="auto-style3"><asp:Button ID="Button2"
runat="server" Text="Select" OnClick="Button2_Click" /></th>
            <th class="auto-style4">
                <asp:Button ID="Button4" runat="server"
OnClick="Button4_Click" Text="Update" />
                 
                <asp:Button ID="Button3" runat="server" Text="Delete"
OnClick="Button3_Click" /></th>
        </tr>
        <tr>
            <th class="auto-style2">
                <asp:Label ID="Label1" runat="server"
Text="Label"></asp:Label>
            </th>
            <th class="auto-style3"> </th>
            <th class="auto-style4"> </th>
        </tr>
    </table>
    <br />
    <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False" DataKeyNames="ID"
DataSourceID="SqlDataSource1">
        <Columns>
            <asp:BoundField DataField="ID" HeaderText="ID"
ReadOnly="True" SortExpression="ID" InsertVisible="False" />
            <asp:BoundField DataField="P_Name"
HeaderText="P_Name" SortExpression="P_Name" />
            <asp:BoundField DataField="P_Price" HeaderText="P_Price"
SortExpression="P_Price" />
        </Columns>
    </asp:GridView>
    <br />
    <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:masterConnectionString
%>" SelectCommand="SELECT * FROM
[Product]"></asp:SqlDataSource>
```

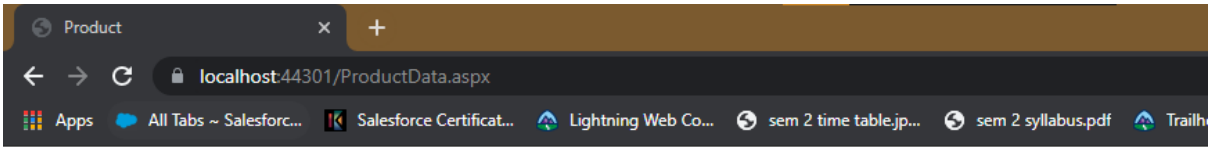
```
        <br />
        <br />
    </div>
    </form>
</body>
</html>
```

ProductData.aspx.cs

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

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

        }
        protected void Button1_Click1(object sender,EventArgs e) {
            var d = new DataClassesDataContext();
            var c = new Product();
            c.P_Name = TextBox1.Text;
            c.P_Price = Convert.ToInt16(TextBox2.Text);

            d.Products.InsertOnSubmit(c);
            d.SubmitChanges();
            Label1.Text = "Successfully Added Data";
        }

        protected void Button2_Click(object sender,EventArgs e) {
            GridView1.DataBind();
        }

        protected void Button3_Click(object sender,EventArgs e) {
            var d = new DataClassesDataContext();
            Product c = d.Products.FirstOrDefault(e1 =>
e1.P_Name.Equals(TextBox1.Text));
            c.P_Name = TextBox1.Text;
            d.Products.DeleteOnSubmit(c);
            d.SubmitChanges();
            Label1.Text = "Successfully Deleted Data";
```

```
            GridView1.DataBind();
        }

        protected void Button4_Click(object sender,EventArgs e) {
            var d = new DataClassesDataContext();
            Product c = d.Products.FirstOrDefault(e1 =>
e1.P_Name.Equals(TextBox1.Text));
            c.P_Name = TextBox1.Text;
            c.P_Price = Convert.ToInt16(TextBox2.Text);
            d.SubmitChanges();
            Label1.Text = "Successfully Updated Data";
            GridView1.DataBind();
        }
    }
}
```

OUTPUT

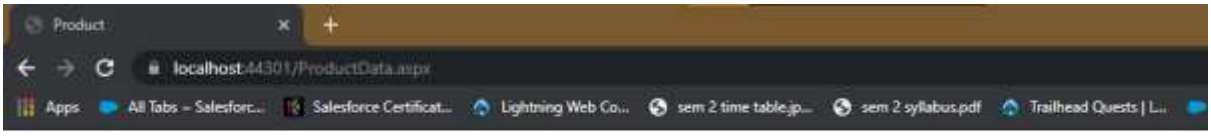


Enter Product_Name : Book

Enter Product_Price : 250

Add Select Update Delete

Successfully Added Data



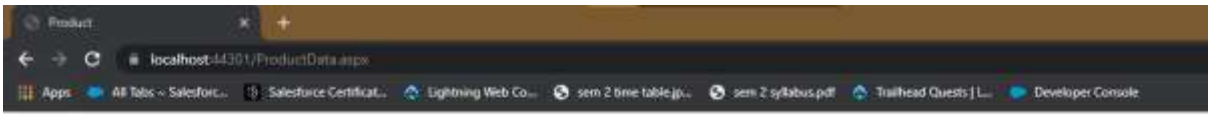
Enter Product_Name : Book

Enter Product_Price : 350

Add Select Update Delete

Successfully Updated Data

ID	P_Name	P_Price
1	Book	350



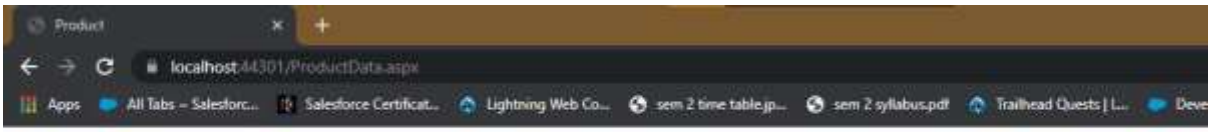
Enter Product_Name : Guitar

Enter Product_Price : 7000

Add Select Update Delete

Successfully Added Data

ID	P_Name	P_Price
1	Book	350
2	Guitar	7000



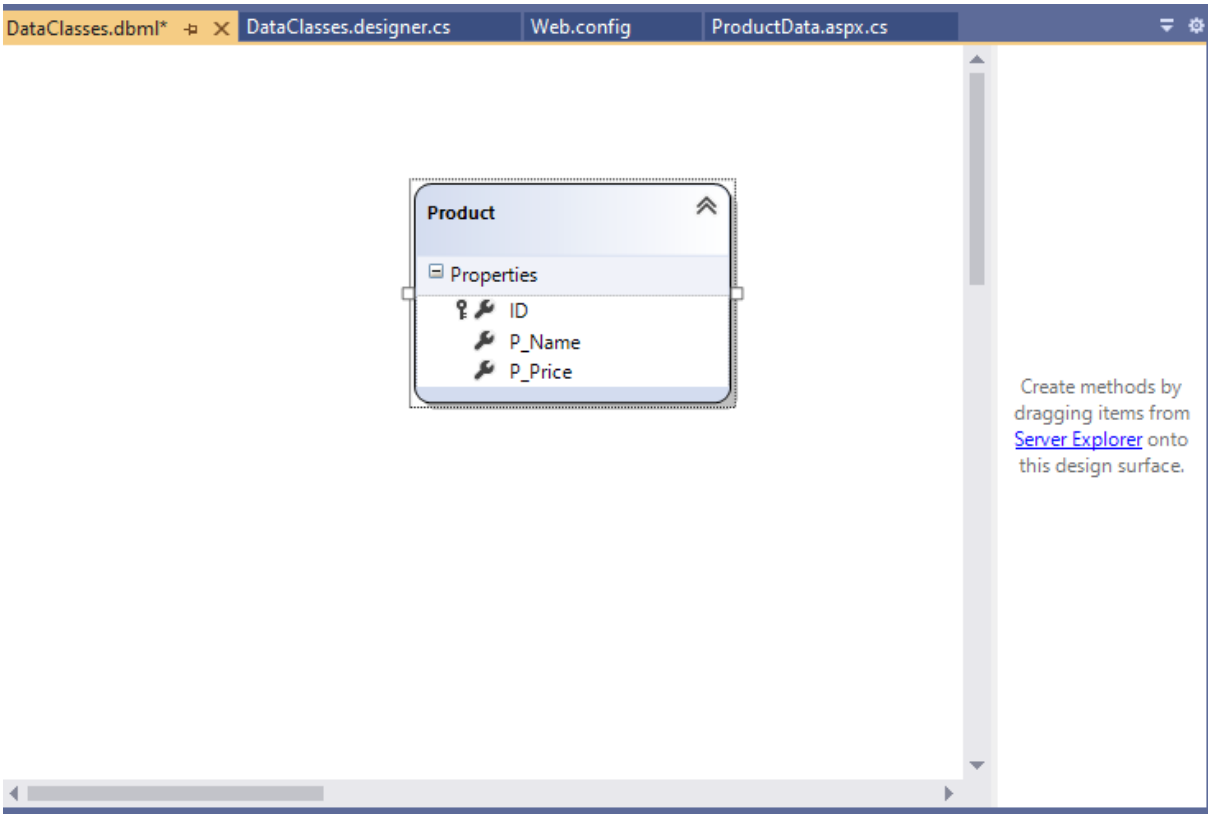
Enter Product_Name : Book

Enter Product_Price : 350

Add Select Update Delete

Successfully Deleted Data

ID	P_Name	P_Price
2	Guitar	7000


DataClasses.dbml*
DataClasses.designer.cs
Web.config
ProductData.aspx.cs
Product
Properties
ID
P_Name
P_Price
Create methods by dragging items from Server Explorer onto this design surface.

Practical 10

10. Create ASP.NET program to demonstrate binding of different controls from database and display those records on grid view.

CODE :

TableList.aspx

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

<!DOCTYPE html>

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

        <br />
        <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:masterConnectionString
%>" SelectCommand="Select name from
sys.tables"></asp:SqlDataSource>
        <br />
        <br />
        List of Table :
        <asp:DropDownList ID="DropDownList1" runat="server"
DataSourceID="SqlDataSource1" DataTextField="name"
DataValueField="name">
        </asp:DropDownList>
        <br />
        <br />
        <br />
        <br />
        <asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="Show Data" />
        <br />
        <br />
 <br />
        <br />
```

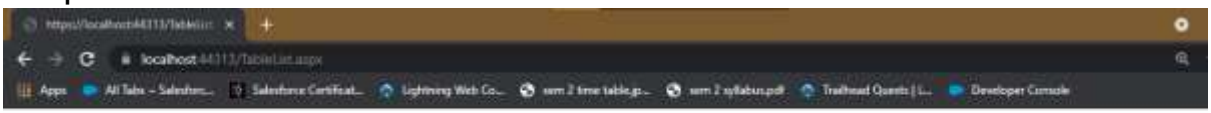
```
        <asp:SqlDataSource ID="SqlDataSource2"
runat="server"></asp:SqlDataSource>
        <br />
        <asp:GridView ID="GridView1" runat="server" >
        </asp:GridView>

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

TableList.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.SqlClient;
using System.Data;
namespace DataBinding {
    public partial class TableList:System.Web.UI.Page {
        static string conn =
System.Configuration.ConfigurationManager.ConnectionStrings["master
ConnectionString"].ConnectionString;
        SqlConnection cn = new SqlConnection(conn);
        SqlCommand cmd;
        SqlDataReader dr;
        SqlDataAdapter adapt;
        DataTable dt;
        DataSet ds;
        protected void Page_Load(object sender,EventArgs e) {

        }

        protected void Button1_Click(object sender,EventArgs e) {
            String q = "select * from " + DropDownList1.Text;
```

```
            cn.Open();
            adapt = new SqlDataAdapter(q,cn);
            dt = new DataTable();
            adapt.Fill(dt);
            GridView1.DataSource = dt;
            cn.Close();
            GridView1.DataBind();
        }
    }
}
```

Output:



List of Table : Product

Show Data

ID	P_Name	P_Price
2	Guitar	7000

Practical No:-11

Aim : Create a windows application to implement Simple & Parameterized Stored Procedure.

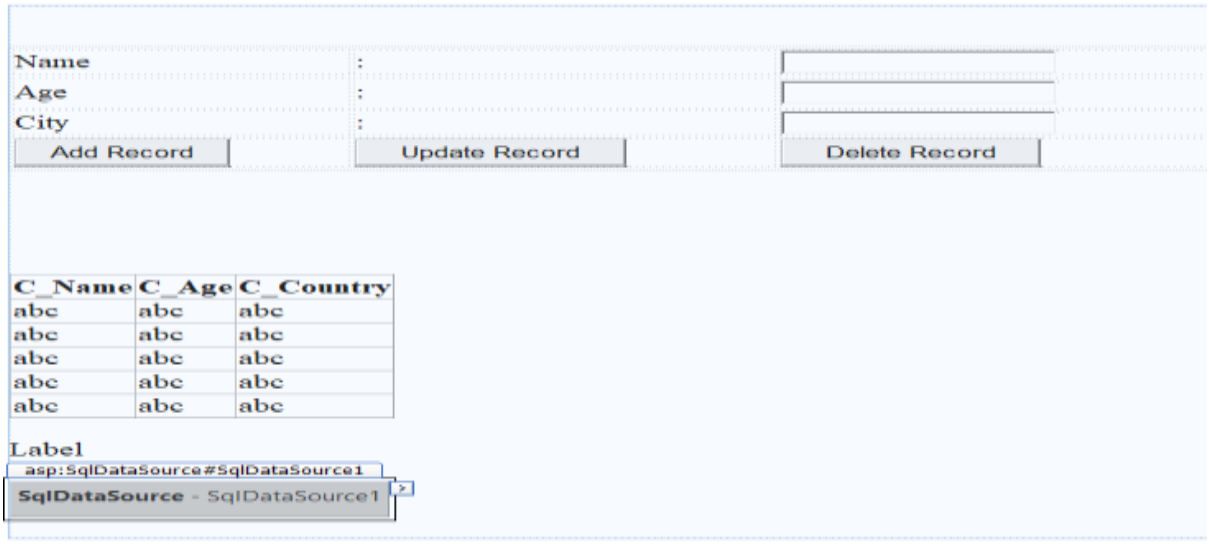
Code :

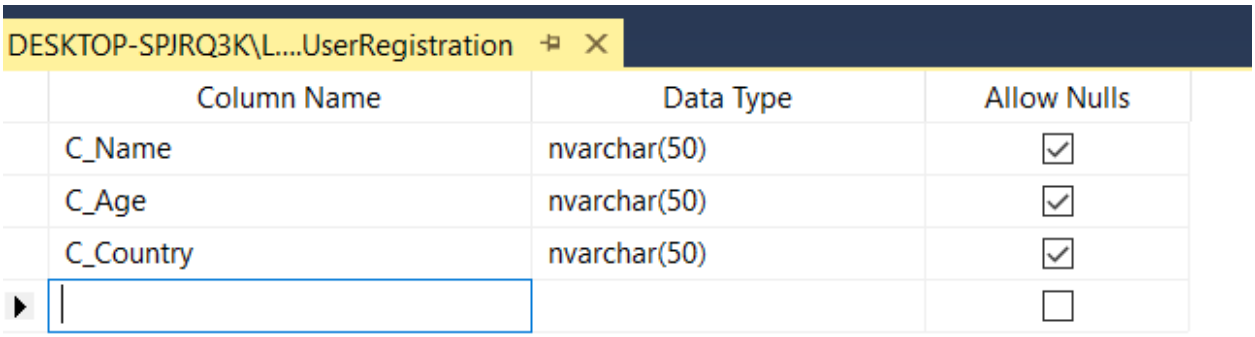
File name:-Default.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 57%;
        }
        .auto-style2 {
            height: 33px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
    <div>

     <br />
        <br />
        <table class="auto-style1">
            <tr>
                <td>Name</td>
                <td>:</td>
                <td>
                    <asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox>
                </td>
            </tr>
            <tr>
                <td class="auto-style2">Age</td>
```

```
            <td class="auto-style2">:</td>
            <td class="auto-style2">
                <asp:TextBox ID="TextBox2"
runat="server"></asp:TextBox>
            </td>
        </tr>
        <tr>
            <td>City</td>
            <td>:</td>
            <td>
                <asp:TextBox ID="TextBox3"
runat="server"></asp:TextBox>
            </td>
        </tr>
        <tr>
            <td><asp:Button ID="Button1" runat="server"
OnClick="Button1_Click" Text="Add Record" /></td>
            <td><asp:Button ID="Button2" runat="server"
OnClick="Button2_Click" Text="Update Record" /></td>
            <td><asp:Button ID="Button3" runat="server"
OnClick="Button3_Click" Text="Delete Record" /></td>
        </tr>
    </table>
    <br />
    <br />
    <br />

 
 
    <br />
    <br />
    <asp:GridView ID="GridView1" runat="server"
AutoGenerateColumns="False" DataSourceID="SqlDataSource1">
        <Columns>
            <asp:BoundField DataField="C_Name"
HeaderText="C_Name" SortExpression="C_Name" />
            <asp:BoundField DataField="C_Age" HeaderText="C_Age"
SortExpression="C_Age" />
            <asp:BoundField DataField="C_Country"
HeaderText="C_Country" SortExpression="C_Country" />
        </Columns>
    </asp:GridView>
    <br />
```

```
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
        <br />
        <br />
        <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:mcaConnectionString %>"
SelectCommand="SELECT [C_Name], [C_Age], [C_Country] FROM
[UserRegistration]"></asp:SqlDataSource>
        <br />

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





Create your Stored Procedure

```
Create PROCEDURE All_Operation_StoredProcedure(
@Name varchar(100)= null,
@Age varchar(100)= null,
@Country varchar(100)= null,
```

```
@Action varchar(100)= null
)
As begin
if @Action = 'Insert' Insert into UserRegistration(C_Name, C_Age,
C_Country) values(@Name, @Age, @Country)
if @Action = 'Update' Update UserRegistration set C_Name =
@Name,
C_Age = @Age, C_Country = @Country where C_Name = @Name
if @Action= 'Delete' Delete from UserRegistration where C_Name =
@Name
End
```

without parameter:

```
Create PROCEDURE Select_Simple_StoredProcedure1
AS
begin
Select C_Name from UserRegistration
 end
```

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;
public partial class _Default : System.Web.UI.Page
{


    protected void Page_Load(object sender, EventArgs e)
    {
        SqlConnection cn = new SqlConnection("Data
Source=(LocalDB)\\MSSQLLocalDB;Initial Catalog=mca;Integrated
Security=True");
        SqlCommand cmd = new
SqlCommand("Select_Simple_StoredProcedure1 ", cn);
        cmd.CommandType = CommandType.StoredProcedure;
        cn.Open();
        SqlDataReader dr = cmd.ExecuteReader();

        Label1.Text = " All users are: " ;
```

```
        while (dr.Read())
            Label1.Text += dr[0].ToString() + "\n " ;
        dr.Close();
        cn.Close();
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        SqlConnection cn = new SqlConnection("Data
Source=(LocalDB)\\MSSQLLocalDB;Initial Catalog=mca;Integrated
Security=True");
        SqlCommand cmd = new
SqlCommand("All_Operation_StoredProcedure", cn);
        cmd.CommandType = CommandType.StoredProcedure;
        cmd.Parameters.AddWithValue("@Action", "Insert");
        cmd.Parameters.AddWithValue("@Name", TextBox1.Text);
        cmd.Parameters.AddWithValue("@Age", TextBox2.Text);
        cmd.Parameters.AddWithValue("@Country", TextBox3.Text);
        cn.Open();
        cmd.ExecuteNonQuery();
        GridView1.Visible = true;
        GridView1.DataBind();
        cn.Close();

    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        SqlConnection cn = new SqlConnection("Data
Source=(LocalDB)\\MSSQLLocalDB;Initial Catalog=mca;Integrated
Security=True");
        SqlCommand cmd = new
SqlCommand("All_Operation_StoredProcedure", cn);
        cmd.CommandType = CommandType.StoredProcedure;
        cmd.Parameters.AddWithValue("@Action", "Update");
        cmd.Parameters.AddWithValue("@Name", TextBox1.Text);
        cmd.Parameters.AddWithValue("@Age", TextBox2.Text);
        cmd.Parameters.AddWithValue("@Country", TextBox3.Text);
        cn.Open();
        cmd.ExecuteNonQuery();
        GridView1.Visible = true;
        GridView1.DataBind();
        cn.Close();
```

```
    }

    protected void Button3_Click(object sender, EventArgs e)
    {
        SqlConnection cn = new SqlConnection("Data
Source=(LocalDB)\\MSSQLLocalDB;Initial Catalog=mca;Integrated
Security=True");
        SqlCommand cmd = new
SqlCommand("All_Operation_StoredProcedure", cn);
        cmd.CommandType = CommandType.StoredProcedure;
        cmd.Parameters.AddWithValue("@Action", "Delete");
        cmd.Parameters.AddWithValue("@Name", TextBox1.Text);
        cmd.Parameters.AddWithValue("@Age", TextBox2.Text);
        cmd.Parameters.AddWithValue("@Country", TextBox3.Text);
        cn.Open();
        cmd.ExecuteNonQuery();
        GridView1.Visible = true;
        GridView1.DataBind();
        cn.Close();
    }
}
```

Output:-

C_Name	C_Age	C_Country
Aish	20	india
Chomy	23	Canada
Ramu	24	Germany
Hitu	26	France

All users are: Aish Chomy Ramu Hitu

Add Record:

Name : shwet

Age : 22

City : Switzerlan

Add Record | Update Record | Delete Record

C_Name	C_Age	C_Country
Aish	20	india
Chomy	23	Canada

All users are: Aish

Name : shwet

Age : 22

City : Switzerlan

Add Record | Update Record | Delete Record

C_Name	C_Age	C_Country
Aish	20	india
Chomy	23	Canada
shwet	22	Switzerlan

All users are: Aish Chomy

Update Record:

Name : Shwet

Age : 22

City : Russia

Add Record | Update Record | Delete Record

C_Name	C_Age	C_Country
Aish	20	india
Chomy	23	Canada
Shwet	22	Russia
Ramu	24	Germany
Hitu	26	France

All users are: Aish Chomy shwet Ramu Hitu

Delete Record:

Name : Shwet

Age : 22

City : Russia

Add Record | Update Record | Delete Record

C_Name	C_Age	C_Country
Aish	20	india
Chomy	23	Canada
Ramu	24	Germany
Hitu	26	France

All users are: Aish Chomy Shwet Ramu Hitu

Practical No:-12

Aim : .Create a windows applications on managing State: Client side (view state)

Code :

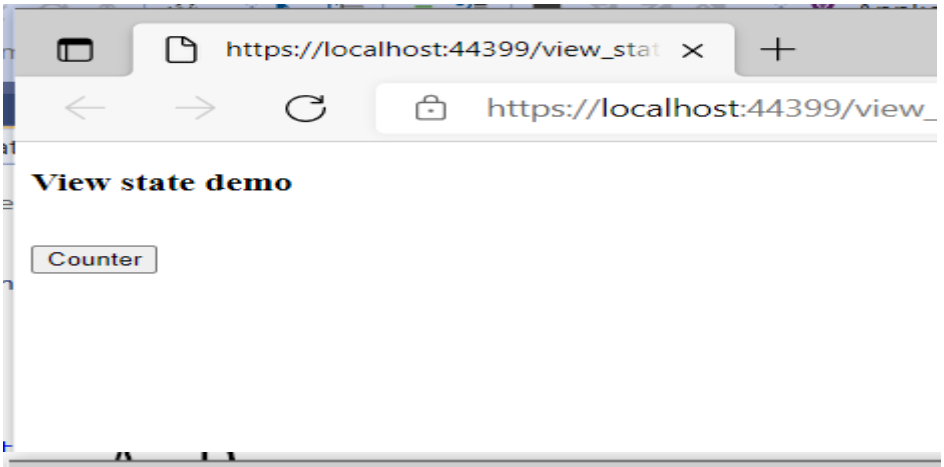
File name:-view_state.aspx

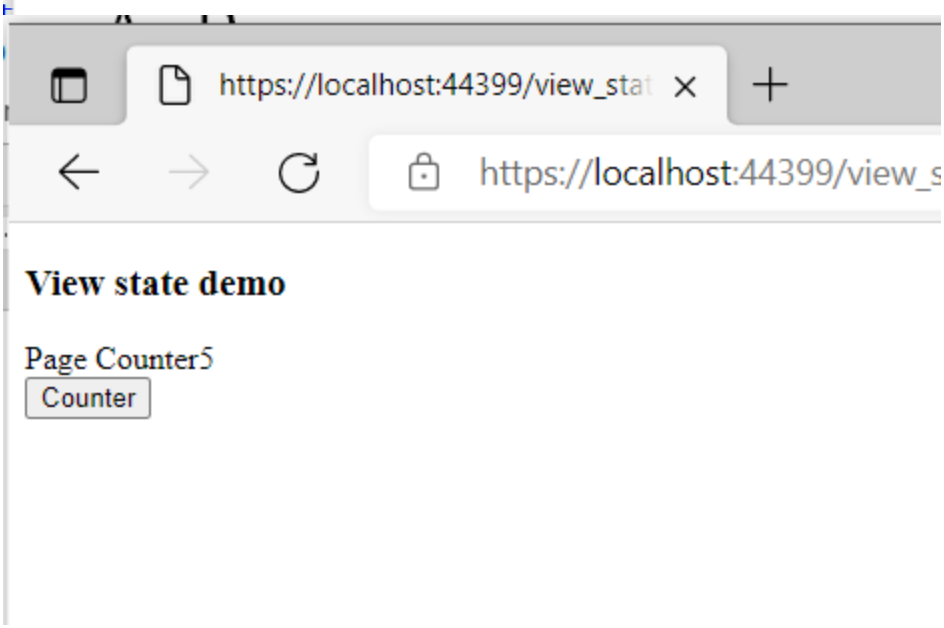

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="view_state.aspx.cs"
Inherits="hidden_field_sm_.view_state" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
              <h3>View state demo</h3>
        <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
           </br>
        <asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="Counter" />


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

File name:-view_state.aspx.cs

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

namespace hidden_field_sm_
{
    public partial class view_state : 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 = "Page Counter" + counter.ToString();

        }
    }
}
```

Output:-


https://localhost:44399/view_stat
https://localhost:44399/view_
View state demo
Counter

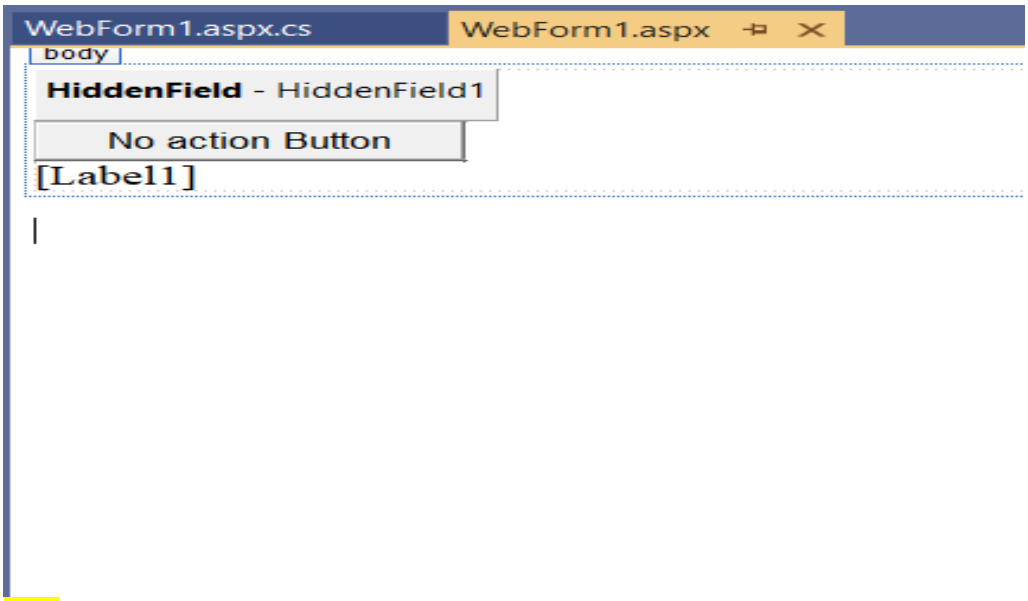

https://localhost:44399/view_stat
https://localhost:44399/view_s
View state demo
Page Counter5
Counter

Practical No:-13

Aim : Create a windows applications on managing State: Client side (Hidden field)

Code :

File name:-WebForm1.aspx



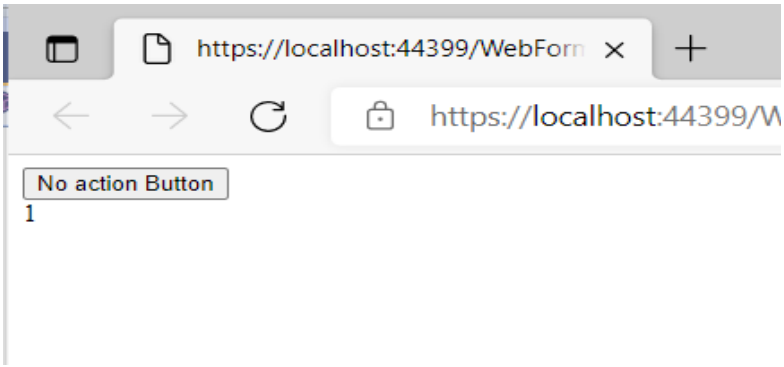

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs"
Inherits="hidden_field_sm_.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:HiddenField ID="HiddenField1" runat="server" Value="0" />
 <asp:Button ID="Button1" runat="server" Text="No action Button"
OnClick="Button1_Click" />
 <br />
<asp:Label ID="Label1" runat="server" Text=""></asp:Label>
        </div>
    </form>
</body>
```

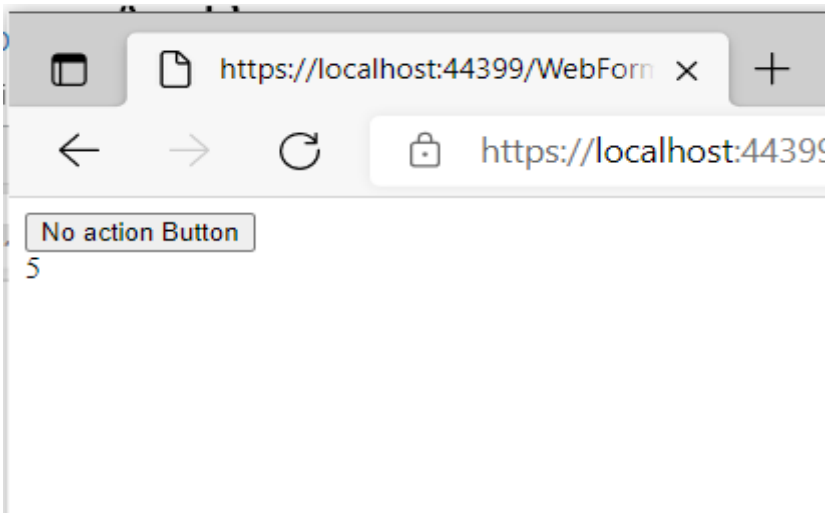
```
</html>
```

File name:-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 hidden_field_sm_
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (HiddenField1.Value != null)
            {
                int val = Convert.ToInt32(HiddenField1.Value) + 1;
                HiddenField1.Value = val.ToString();
                Label1.Text = val.ToString();
            }
            }

        protected void Button1_Click(object sender, EventArgs e)
        {

        }
    }
}
```

Output:-


https://localhost:44399/WebForm
https://localhost:44399/W
No action Button
1

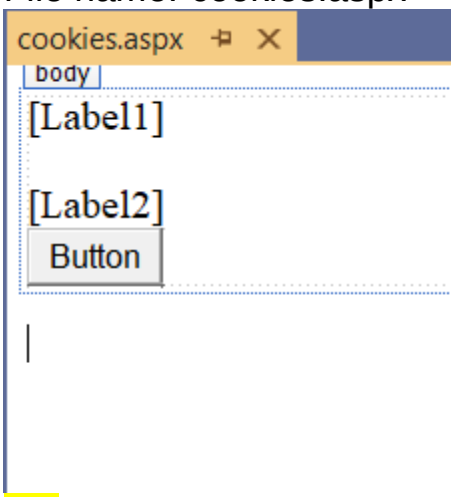

https://localhost:44399/WebForm
https://localhost:4439
No action Button
5

Practical No:-14

Aim : .Create a windows applications on managing State: Client side (Persistent & Non Persistent Cookies)

Code :

File name:-cookies.aspx



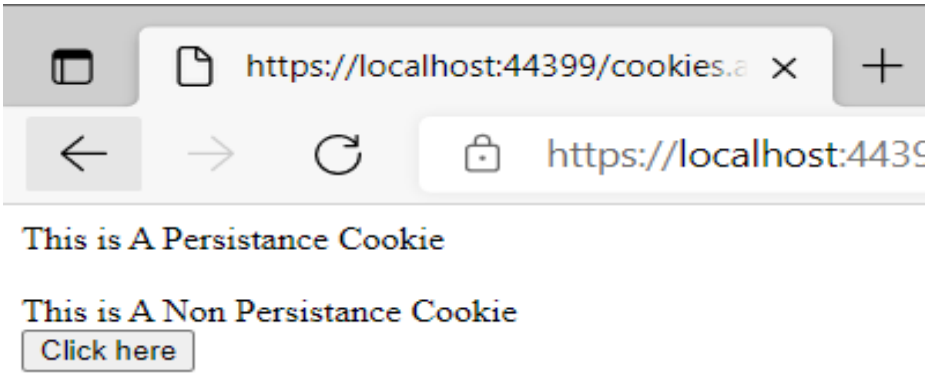

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="cookies.aspx.cs" Inherits="hidden_field_sm_.cookies" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="Label1" runat="server" Text=""></asp:Label><br
/>
 <br />
<asp:Label ID="Label2" runat="server" Text="">

</asp:Label><br />
            <asp:Button ID="Button1" runat="server"
OnClick="Button1_Click" Text="Button" />
 <br />

        </div>
```

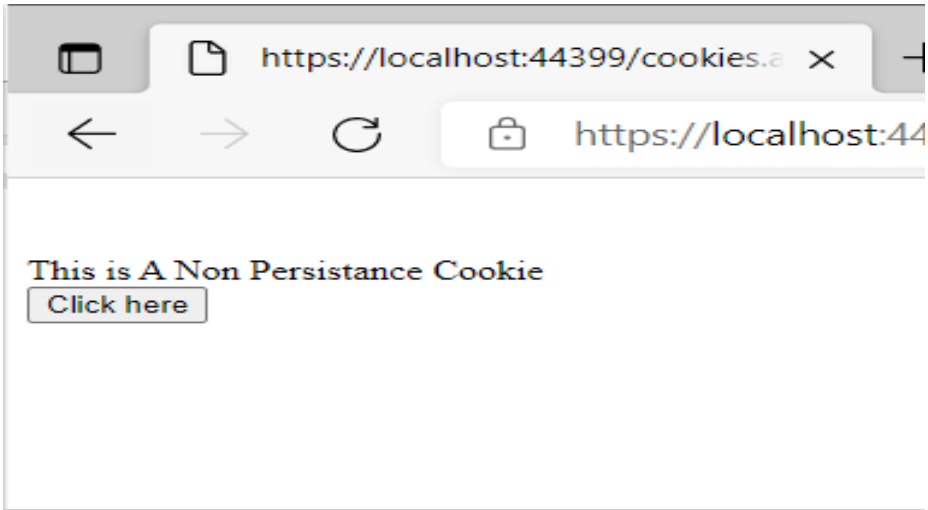
```
    </form>
</body>
</html>
```

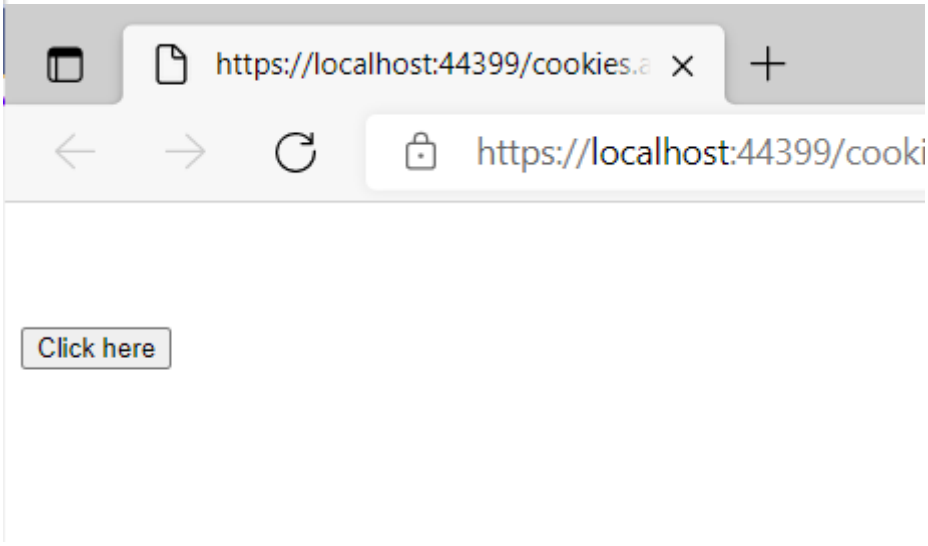
File name:-cookies.aspx.cs

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

namespace hidden_field_sm_
{
    public partial class cookies : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Request.Cookies["Persistance"] != null)
                Label1.Text = Request.Cookies["Persistance"].Value;
            else
                Label1.Text = "";
            if (Request.Cookies["NonPersistance"] != null)
                Label2.Text = Request.Cookies["NonPersistance"].Value;
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            /*Persistent Cookies*/
            HttpCookie aCookieValPer = new HttpCookie("Persistance");
            aCookieValPer.Value = "This is A Persistance Cookie";
            aCookieValPer.Expires = DateTime.Now.AddSeconds(10);
            Response.Cookies.Add(aCookieValPer);
            /*Non Persistent Cookies*/
            HttpCookie aCookieValNonPer = new
HttpCookie("NonPersistance");
            aCookieValNonPer.Value = "This is A Non Persistance Cookie";
            Response.Cookies.Add(aCookieValNonPer);

        }
    }
}
```

Output:-


https://localhost:44399/cookies.a
https://localhost:4439
This is A Persistance Cookie
This is A Non Persistance Cookie
Click here


https://localhost:44399/cookies.a
https://localhost:44
This is A Non Persistance Cookie
Click here

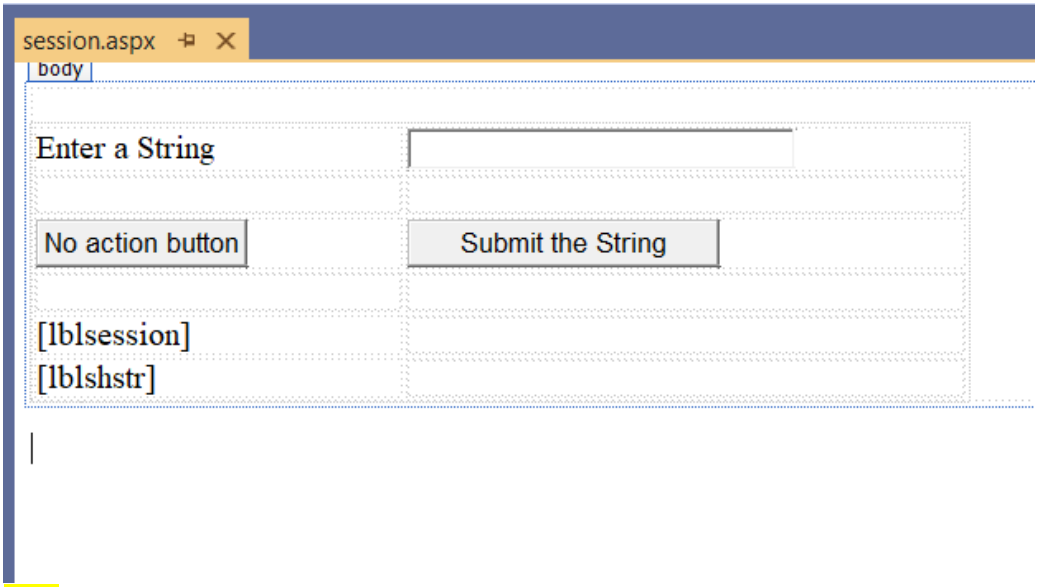

https://localhost:44399/cookies.a
https://localhost:44399/cooki
Click here

Practical No:-15

Aim : Create a windows applications on managing State: Server Side(Session Management)

Code :

File name:-session.aspx




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

<!DOCTYPE html>

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

<table style="width: 568px; height: 103px">

 <tr>
```

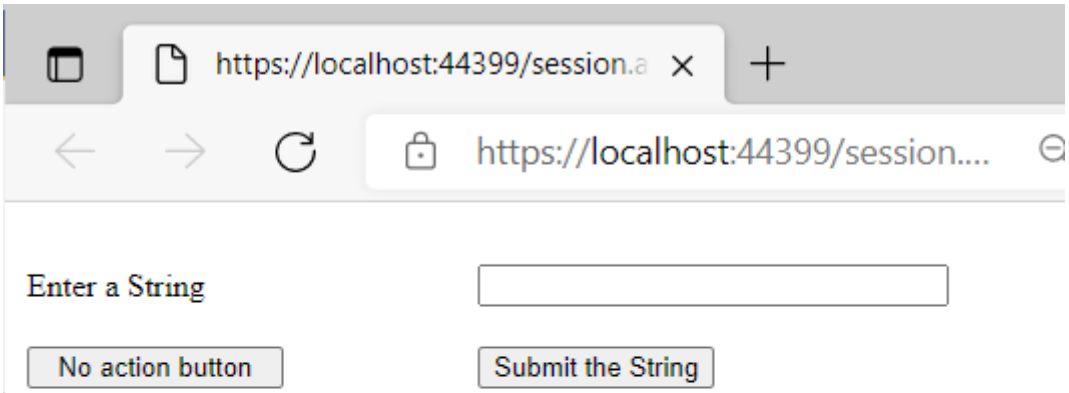
```
 <td style="width: 209px">
 <asp:Label ID="lblstr" runat="server" Text="Enter a String"
style="width:94px">
 </asp:Label>
 </td>
<td style="width: 317px">
 <asp:TextBox ID="txtstr" runat="server" style="width:227px">
 </asp:TextBox>
 </td>
 </tr>
<tr>
 <td style="width: 209px"> </td>
 <td style="width: 317px"> </td>
 </tr>
<tr>
 <td style="width: 209px">
 <asp:Button ID="btnnrm" runat="server"
 Text="No action button" style="width:128px" />
 </td>
<td style="width: 317px">
 <asp:Button ID="btnstr" runat="server"
 OnClick="btnstr_Click" Text="Submit the String" />
 </td>
 </tr>
 <tr>
 <td style="width: 209px"> </td>
 <td style="width: 317px"> </td>
 </tr>
<tr>
 <td style="width: 209px">
 <asp:Label ID="lblsession" runat="server" style="width:231px" >
 </asp:Label>
 </td>
<td style="width: 317px"> </td>
 </tr>
<tr>
 <td style="width: 209px">
 <asp:Label ID="lblshstr" runat="server">
 </asp:Label>
 </td>
<td style="width: 317px"> </td>
 </tr>
 </table>
```

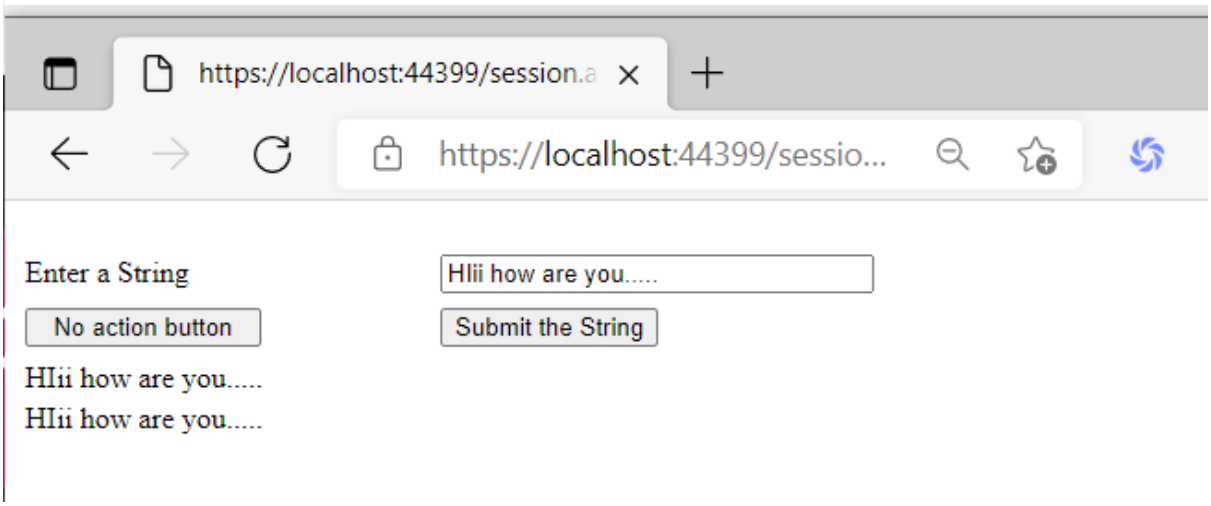
```
        </div>
    </form>
</body>
</html>
```

File name:-session.aspx.cs

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

namespace hidden_field_sm_
{
    public partial class session : System.Web.UI.Page
    {
        String mystr;
        protected void Page_Load(object sender, EventArgs e)
        {


        }

        protected void btnstr_Click(object sender, EventArgs e)
        {
            this.mystr = this.txtstr.Text;
            this.Session["str"] = this.txtstr.Text;
            this.lblshstr.Text = this.mystr;
            this.lblsession.Text = (String)this.Session["str"];
        }
    }
}
```

Output:-


https://localhost:44399/session.a
https://localhost:44399/session....
Enter a String
No action button
Submit the String


https://localhost:44399/session.a
https://localhost:44399/sessio...
Enter a String
Hlii how are you.....
No action button
Submit the String
HIii how are you.....
HIii how are you.....

Practical 16

Aim: Display ASP.NET web page to demonstrate postback and crosspage posting with all web controls.

Web1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeFile="Web1.aspx.cs" Inherits="Web1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="Label1" runat="server" Text="Enter your
name:"></asp:Label>
              
            <asp:TextBox ID="TextBox1" runat="server"
AutoPostBack="true"></asp:TextBox>
            <br />
            <br />
            <asp:Calendar ID="Calendar1" runat="server"></asp:Calendar>
            <br />
            <asp:Button ID="Button1" runat="server" Text="Same page post
back" OnClick="Button1_Click" />
              
            <asp:Button ID="Button2" runat="server" Text="cross page post
back" PostBackUrl="~/web2.aspx" OnClick="Button2_Click" />
            <br />
            <br />
            <asp:Label ID="Label2" runat="server"></asp:Label>
            <br />
            <br />
            <br />
        </div>
    </form>
</body>
</html>
```

Web1.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 Web1:System.Web.UI.Page {
    protected void Page_Load(object sender,EventArgs e) {

    }
    protected void Button1_Click(object sender,EventArgs e) {
        Label2.Text = "Hi" + TextBox1.Text + ",here is the output of the
same page post back button:" + Calendar1.SelectedDate.ToString();
    }
    protected void Button2_Click(object sender,EventArgs e) {

    }
}
```

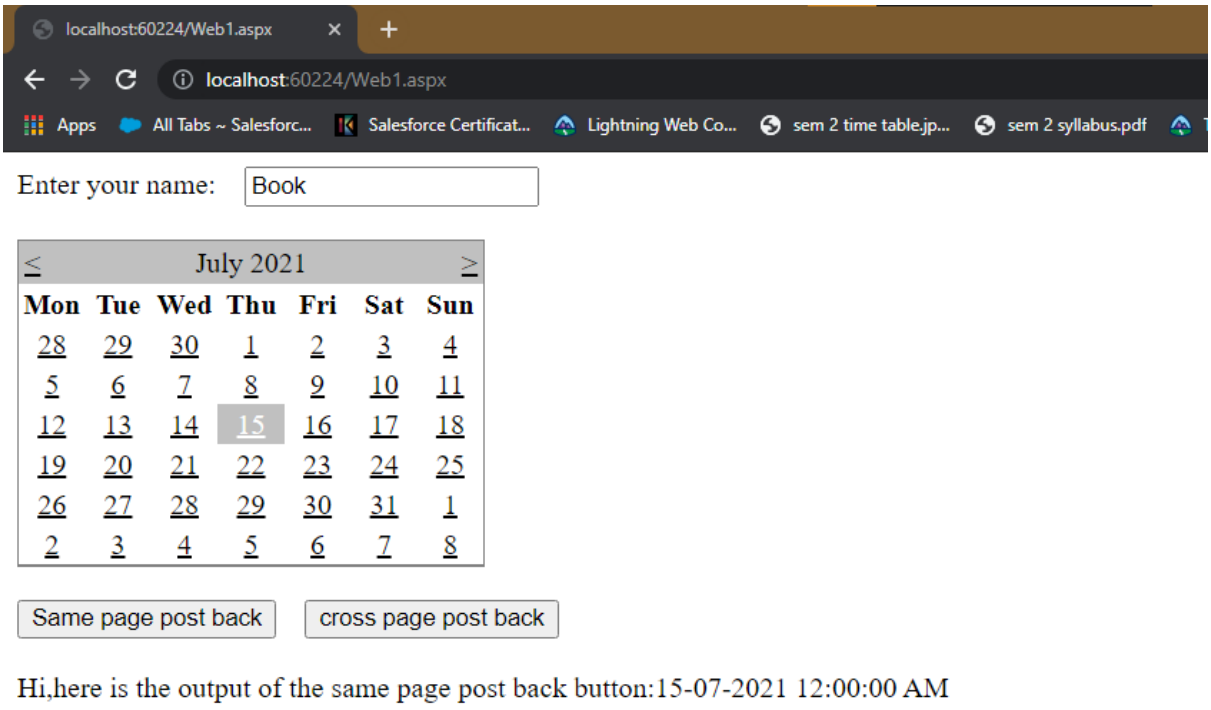
Web2

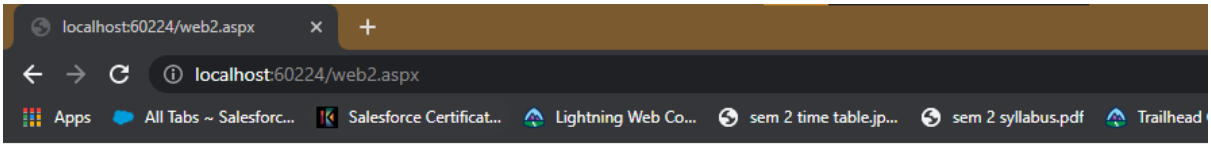
```
<%@ Page Language="C#" AutoEventWireup="true"
CodeFile="Web2.aspx.cs" Inherits="Web2" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="Label1" runat="server"></asp:Label>
        </div>
    </form>
</body>
</html>
```

Web2.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 Web2:System.Web.UI.Page {
    protected void Page_Load(object sender,EventArgs e) {
        Calendar Calendar1 = new Calendar();
        TextBox TextBox1 = new TextBox();
        Calendar1 = (Calendar)PreviousPage.FindControl("Calendar1");
        TextBox1 = (TextBox)PreviousPage.FindControl("TextBox1");
        Label1.Text = "Hi " + TextBox1.Text + ", here is the output of the
Cross Page Post Back Button: " + Calendar1.SelectedDate.ToString();
    }
}
```





Hi Book, here is the output of the Cross Page Post Back Button: 15-07-2021 12:00:00 AM

Practical 17

Aim: Create ASP.NET program using master page & themes and skins.

Default2

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.master"
AutoEventWireup="true" CodeFile="Default2.aspx.cs"
Inherits="Default2" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head"
Runat="Server">
</asp:Content>

<asp:Content ID="Content2"
ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
    <h1>Welcome to Home Page</h1>
</asp:Content>
```

Default3

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.master"
AutoEventWireup="true" CodeFile="Default3.aspx.cs"
Inherits="Default3" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head"
Runat="Server">
</asp:Content>
<asp:Content ID="Content2"
ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
    <h1>Welcome to About Us</h1>
</asp:Content>
```

Default4

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.master"
AutoEventWireup="true" CodeFile="Default4.aspx.cs"
Inherits="Default4" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="head"
Runat="Server">
</asp:Content>
<asp:Content ID="Content2"
ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
    <h1>Welcome to Contact Us</h1>
</asp:Content>
```

Site1.master.cs

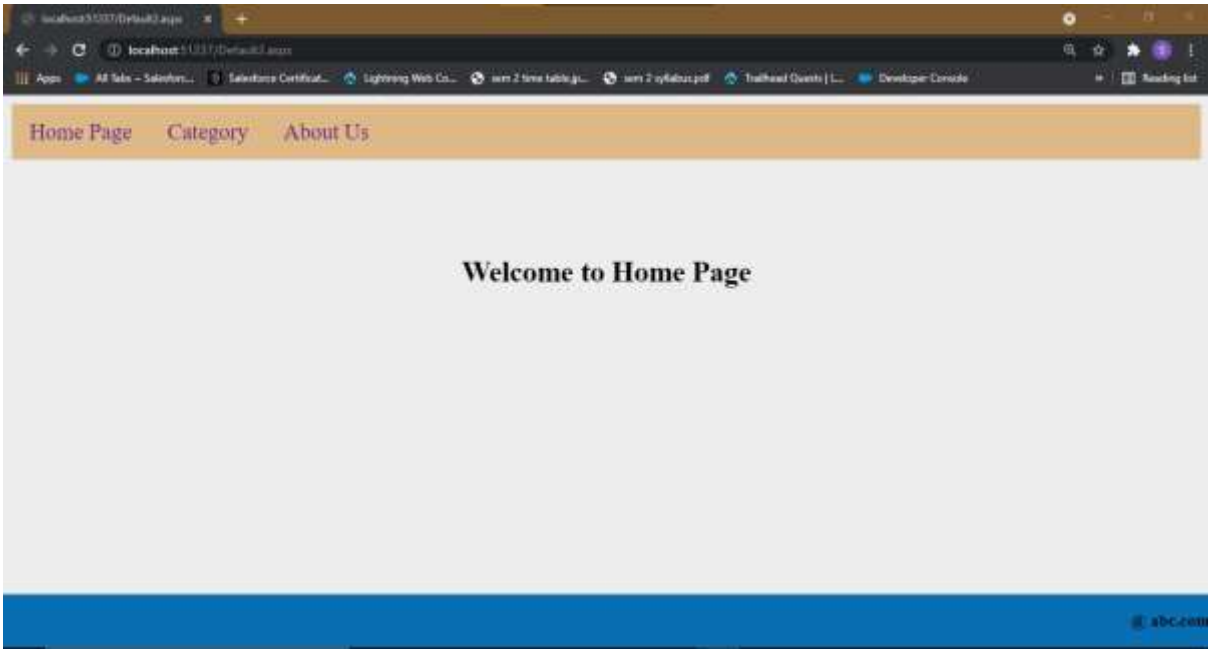
```
<%@ Master Language="C#" AutoEventWireup="true"
CodeFile="Site1.master.cs" Inherits="Site1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <link href="StyleSheet.css" rel="stylesheet" type="text/css" />
    <asp:ContentPlaceHolder id="head" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body>
    <form id="form1" runat="server">
    <div class="wrapper">
        <div class="menu">
            <ul>
                <li><a href="Default2.aspx">Home Page</a></li>
                <li><a href="Default3.aspx">Category</a></li>
                <li><a href="Default4.aspx">About Us</a></li>
            </ul>
        </div>
        <div class="content">
            <asp:ContentPlaceHolder id="ContentPlaceHolder1"
runat="server">

            </asp:ContentPlaceHolder>
        </div>

            <div class="footer">
                <h3>@ abc.com</h3>
            </div>
```

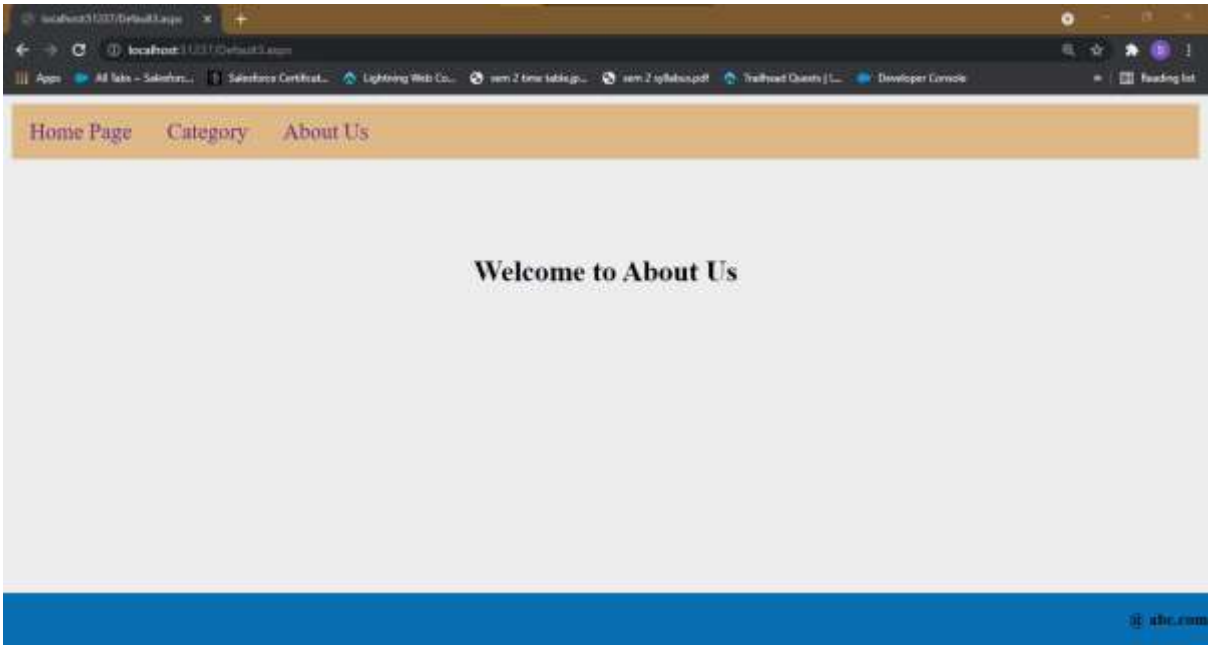
```
    </div>
    </form>
</body>
</html>
```

StyleSheet.css

```
body
{   background-color:rgb(237,237,237);
     font-family:Times New Roman;
     font-size:13px;
}

.footer
{
     background-color :rgb(10,110,178);
     color:rgb(0,0,0);
     position:fixed;
     bottom:0px;
     left:0px;
     width:100%;
     text-align:right;
}

ul{
    list-style-type:none;
    margin:0px;
    padding:0px;
    overflow:hidden;

}

li{
    float:left;
}

li a{
    display:block;
    padding:14px 16px;
    font-size:20px;
```

```
    text-decoration:none;
}

.menu{
    background-color:burlywood;
    margin:auto;
}

li a:hover{
    background-color:coral;
}

.content{
    padding: 70px 0;
    text-align:center;
}
```




Home Page
Category
About Us
Welcome to About Us

Practical 18

Aim: Create ASP.NET program based on validation controls.

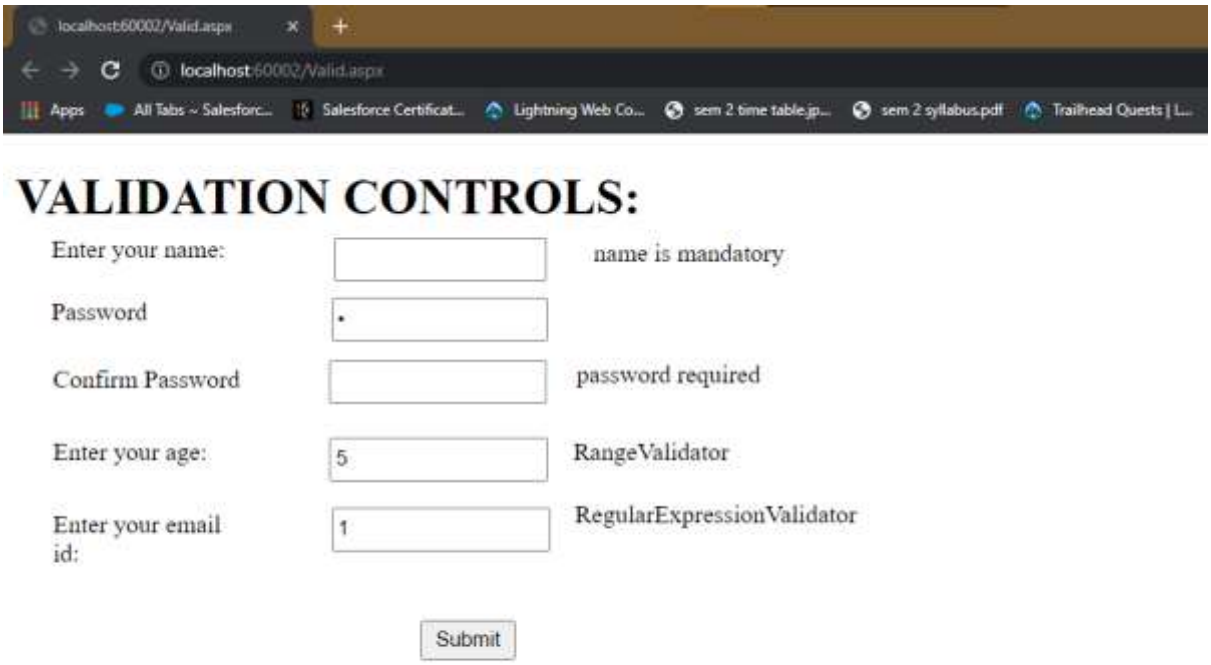
Valid.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h1>VALIDATION CONTROLS: </h1>
            <p> </p>
            <p> </p>
            <p> </p>
            <p> </p>
            <p> </p>
            <p> </p>
            <p> </p>
            <p> </p>
            <asp:Label ID="Label3" runat="server" Style="top: 241px; left:
32px; position: absolute; height: 22px; width: 128px; bottom: 54px;"
Text="Enter your email id:">        </asp:Label>
            <asp:Label ID="Label1" runat="server" Style="top: 65px; left:
31px; position: absolute; height: 22px; width: 128px" Text="Enter your
name:">  </asp:Label>
            <asp:TextBox ID="TextBox1" runat="server" Style="top: 66px;
left: 212px; position: absolute; height: 22px; width: 128px; right: 765px;">
</asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
runat="server" Style="top: 67px; left: 378px; position: absolute; height:
22px; width: 128px" ErrorMessage="RequiredFieldValidator"
```

```
ControlToValidate="TextBox1"> name is mandatory
</asp:RequiredFieldValidator>
        </div>
        <p>
            <asp:Button ID="Button1" runat="server" Style="top: 311px; left:
267px; position: absolute; height: 26px; width: 61px"
                Text="Submit" />
        </p>
        <asp:TextBox ID="TextBox3" runat="server" Style="top: 145px; left:
209px; position: absolute; height: 22px; width: 131px"
TextMode="Password">      </asp:TextBox>
        <p>
            <asp:TextBox ID="TextBox2" runat="server" Style="top: 105px;
left: 210px; position: absolute; height: 22px; width: 131px"
                TextMode="Password">   </asp:TextBox>
            <asp:Label ID="Label4" runat="server" Style="top: 105px; left:
31px; position: absolute; height: 22px; width: 128px" Text="Password">
</asp:Label>
            <asp:TextBox ID="TextBox5" runat="server" Style="top: 239px;
left: 210px; position: absolute; height: 22px; width: 132px">
</asp:TextBox>
        </p>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator3"
runat="server" Style="top: 104px; left: 367px; position: absolute; height:
26px; width: 162px" ErrorMessage="password required"
ControlToValidate="TextBox2">    </asp:RequiredFieldValidator>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator2"
runat="server" Style="top: 145px; left: 367px; position: absolute; height:
26px; width: 162px" ErrorMessage="password required"
ControlToValidate="TextBox3">     </asp:RequiredFieldValidator>
        <asp:CompareValidator ID="CompareValidator1" runat="server"
Style="top: 149px; left: 512px; position: absolute; height: 26px; width:
162px" ErrorMessage="CompareValidator"
ControlToValidate="TextBox3" ValueToCompare="hello">
</asp:CompareValidator>
        <p>
            <asp:Label ID="Label5" runat="server" Style="top: 148px; left:
32px; position: absolute; height: 22px; width: 128px; bottom: 147px;"
Text="Confirm Password">   </asp:Label>
            <asp:TextBox ID="TextBox4" runat="server" Style="top: 194px;
left: 209px; position: absolute; height: 22px; width: 132px">
</asp:TextBox>
```

```
            <asp:Label ID="Label6" runat="server" Style="top: 194px; left:
32px; position: absolute; height: 22px; width: 128px; bottom: 101px;"
Text="Enter your age:">   </asp:Label>
        </p>
        <asp:RangeValidator ID="RangeValidator1" runat="server"
Style="top: 194px; left: 365px; position: absolute; height: 22px; width:
105px" ErrorMessage="RangeValidator" ControlToValidate="TextBox4"
MaximumValue="100" MinimumValue="18" Type="Integer">
</asp:RangeValidator>
        <asp:RegularExpressionValidator
ID="RegularExpressionValidator1" runat="server" Style="top: 234px; left:
366px; position: absolute; height: 22px; width: 177px"
ErrorMessage="RegularExpressionValidator"
ControlToValidate="TextBox5" ValidationExpression="\w+([-
+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*">
</asp:RegularExpressionValidator>

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

Output:



Practical 19

Aim: Display digital clock using Ajax.

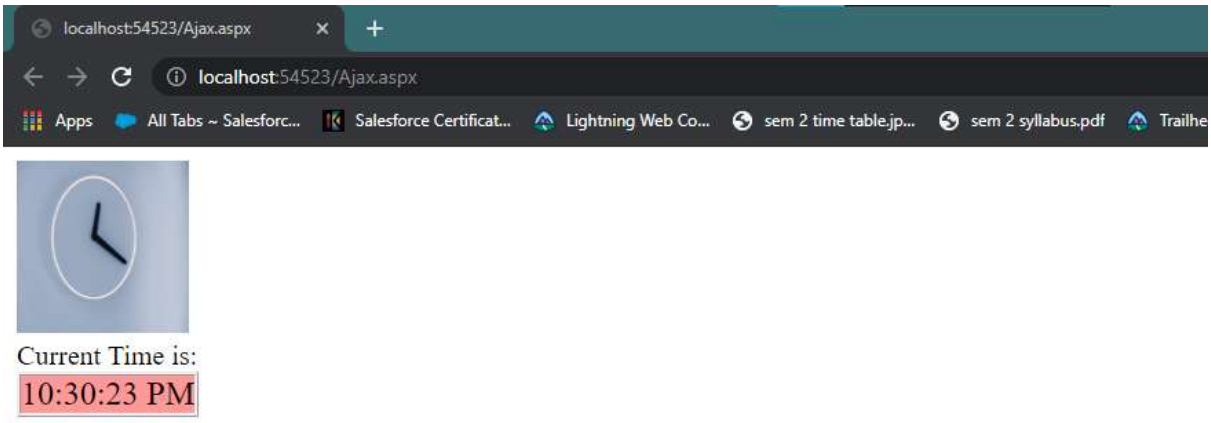
Ajax.aspx

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

<!DOCTYPE html>

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

            <asp:Image ID="Image1" runat="server" Width="100"
Height="100" ImageUrl="Image/photo.jpeg" />
            <asp:ScriptManager ID="ScriptManager1"
runat="server"></asp:ScriptManager>
            <asp:UpdatePanel ID="UpdatePanel1" runat="server">
                <ContentTemplate>
                    Current Time is:<br />
                    <asp:Timer ID="Timer1" runat="server" Interval="1000"
                        OnTick="Timer1_Tick1">
                    </asp:Timer>
                    <asp:Label ID="Label1" runat="server"
BackColor="#FF9999" BorderStyle="Ridge"
                        Font-Size="Larger"></asp:Label>
                </ContentTemplate>
            </asp:UpdatePanel>
        </div>
    </form>
</body>
</html>
```

Ajax.aspx.cs

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

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

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

        }
        protected void Timer1_Tick1(object sender, EventArgs e)
        {
            Label1.Text = DateTime.Now.ToLongTimeString();
        }

    }
}
```




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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
```

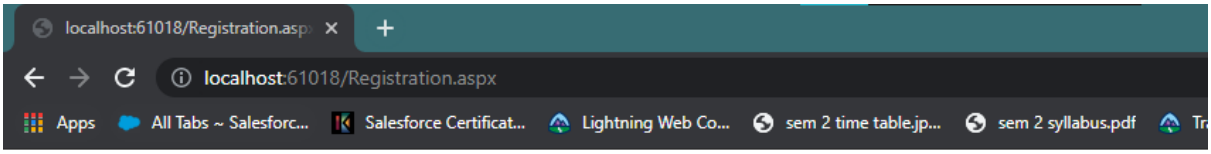
```
<body>
    <form id="form1" runat="server">
    <div>
    Enter Name : <asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox>
        <br />
        Enter Email : <asp:TextBox ID="TextBox2"
runat="server"></asp:TextBox>
        <br />
        Enter Mobile No : <asp:TextBox ID="TextBox3"
runat="server"></asp:TextBox>
        <br />
        <br />
        <asp:Button ID="Button1" runat="server" Text="Button"
OnClick="Button1_Click" />
        <asp:ScriptManager ID="ScriptManager1"
runat="server"></asp:ScriptManager>
        <asp:UpdatePanel ID="UpdatePanel1" runat="server">
            <ContentTemplate>
                <asp:Timer ID="Timer1" runat="server" Interval="1000"
OnTick="Timer1_Tick"></asp:Timer>
                <asp:Label ID="Label1" runat="server"
Text="Label"></asp:Label>
            </ContentTemplate>
        </asp:UpdatePanel>
        <asp:Label ID="Label2" runat="server" Text="Label"></asp:Label>
    </div>
    </form>
</body>
</html>
```

Practical 20

Aim: Design a registration form with current time as one field, update the time using Ajax while you are entering details in registration form.

Registration.aspx

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

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

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        Label2.Text = TextBox1.Text +" " + TextBox2.Text +" "+
TextBox3.Text;
    }


    protected void Timer1_Tick(object sender, EventArgs e)
    {
        Label1.Text = DateTime.Now.ToLongTimeString();
    }
}
```



Enter Name : Book
Enter Email : Book@viva.com
Enter Mobile No : 123450103

Button
10:33:53 PM
Book Book@viva.com 123450103

Practical 21

Aim: Design a web service to access the method of BankAccount class, consume this web service using web client.

BankWebService

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

/// <summary>
/// Summary description for BankWebService
/// </summary>
[WebService(Namespace = "http://tempuri.org/")]
[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
// To allow this Web Service to be called from script, using ASP.NET
AJAX, uncomment the following line.
// [System.Web.Script.Services.ScriptService]
public class BankWebService : System.Web.Services.WebService
{

    public BankWebService()
    {

        //Uncomment the following line if using designed components
        //InitializeComponent();
    }

    [WebMethod]
    public string HelloWorld()
    {
        return "Hello World";
    }
    [WebMethod]
    public string getName(string nm)
    {
        return nm;
    }
    [WebMethod]
```

```
    public int getAccountNumber(int AccNum)
    {
        return AccNum;
    }

}
```

Default.aspx

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

<!DOCTYPE html>

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

        <table align="center">
            <caption>Account Details</caption>
            <tr>
                <td>Enter Name</td>
                <td>
                    <asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox>
                </td>
            </tr>
            <tr>
                <td>Enter Account No </td>
                <td>
                    <asp:TextBox ID="TextBox2"
runat="server"></asp:TextBox>
                </td>
            </tr>
            <tr>
                <td colspan="2" align="center">
                    <asp:Button ID="Button1" runat="server" Text="Show"
OnClick="Button1_Click" />
                </td>
```

```
            </tr>
            <tr>
                <td colspan="2" align="center">
                    <asp:Label ID="Label1" runat="server"></asp:Label>
                </td>
            </tr>
        </table>

    </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;

public partial class _Default : System.Web.UI.Page
{
    BankWebService obj = new BankWebService();
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        Label1.Text = "Welcome Mr./Mrs." + obj.getName(TextBox1.Text) +
"<br /> Your Account No is " +
obj.getAccountNumber(Convert.ToInt32(TextBox2.Text)).ToString();
    }
}
```

Account Details

Enter Name Book

Enter Account No 350

Show

Welcome Mr./Mrs.Book

Your Account No is 350

Practical 22

Aim: Create a web service that returns all student details from student table. Write windows application that user this service to display student details in a DataGridView control.

WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs"
Inherits="webservice_database.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:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:CollegeConnectionString
%>" SelectCommand="SELECT * FROM
[Course]"></asp:SqlDataSource>
            <asp:GridView ID="GridView1" runat="server"></asp:GridView>
            <asp:Button ID="Button1" runat="server" Text="Show Courses"
OnClick="Button1_Click" />
        </div>
    </form>
</body>
</html>
```

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

```
        protected void Button1_Click(object sender,EventArgs e) {
            WebService1 obj = new WebService1();
            GridView1.DataSource = obj.getCourse();
            GridView1.DataBind();
        }
    }
}
```

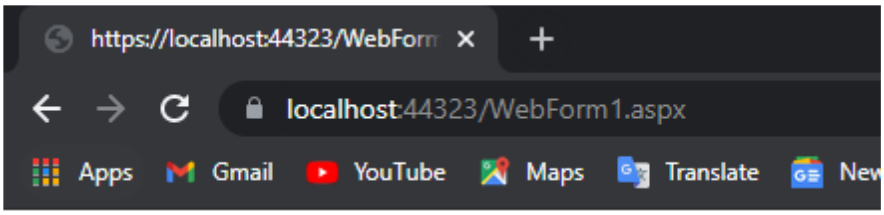
WebService1.asmx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;
using System.Data.SqlClient;
using System.Configuration;
using System.Data;
namespace webservice_database {
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    // To allow this Web Service to be called from script, using ASP.NET
AJAX, uncomment the following line.
    // [System.Web.Script.Services.ScriptService]
    public class WebService1:System.Web.Services.WebService {
        [WebMethod]
        public DataSet getCourse() {
            string con =
ConfigurationManager.ConnectionStrings["CollegeConnectionString"].C
onnectionString;
            using (SqlConnection conn = new SqlConnection(con)) {
                using (SqlCommand cmd = new SqlCommand("select * from
Course ",conn)) {
                    using (SqlDataAdapter da = new SqlDataAdapter(cmd)) {
                        DataSet ds = new DataSet();
                        da.Fill(ds);
                        return ds;
                    }
                }
            }
        }
```

```
    }
}
```

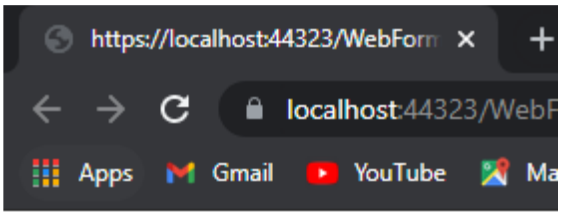
DESKTOP-JCLI3CL\S...llege - dbo.Course | DESKTOP-JCLI3CL\S...llege - dbo.Cours

	course_id	course_name	course_desc	modified_date
▶	1	MCA	Computer Appl...	1/1/2020
	2	BSC	IT	1/1/2017
*	*NULL*	*NULL*	*NULL*	*NULL*



course_id	course_name	course_desc	modified_date
1	MCA	Computer Application	1/1/2020
2	BSC	IT	1/1/2017

Show Courses



Show Courses

Practical 23

Aim: Design WCF service for a simple arithmetic calculator; consume the service using a web client.

Customer.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="customer.aspx.cs"
Inherits="WCFAapplication.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:Label ID="Label1" runat="server" Text="Enter number 1:
"></asp:Label>    
            <asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox><br>
            <br>
            <asp:Label ID="Label2" runat="server" Text="Enter number 2:
"></asp:Label>    
            <asp:TextBox ID="TextBox2"
runat="server"></asp:TextBox><br>
            <br>
            <asp:Label ID="Label3" runat="server" Text="Result:
"></asp:Label>   
            <asp:TextBox ID="TextBox3"
runat="server"></asp:TextBox><br>
            <br>
            <asp:Button ID="Button1" runat="server" Text="Add"
OnClick="Button1_Click" />
                
            <asp:Button ID="Button2" runat="server" Text="Subtract"
                OnClick="Button2_Click" />    
            <asp:Button ID="Button3" runat="server" Text="Multiply"
                OnClick="Button3_Click" />    
```

```
            <asp:Button ID="Button4" runat="server" Text="Divide"
OnClick="Button1_Click" />
        </div>
    </form>
</body>
</html>
```

WebForm1

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WCFAapplication {
    public partial class WebForm1:System.Web.UI.Page {
        ServiceReference1.Service1Client obj = new
ServiceReference1.Service1Client();
        protected void Page_Load(object sender,EventArgs e) {
        }
        protected void Button1_Click(object sender,EventArgs e) {
            double x, y;
            x = Convert.ToInt32(TextBox1.Text);
            y = Convert.ToInt32(TextBox2.Text);
            TextBox3.Text = obj.add(x,y).ToString();
        }
        protected void Button2_Click(object sender,EventArgs e) {
            double x, y;
            x = Convert.ToInt32(TextBox1.Text);
            y = Convert.ToInt32(TextBox2.Text);
            TextBox3.Text = obj.sub(x,y).ToString();
        }
        protected void Button3_Click(object sender,EventArgs e) {
            double x, y;
            x = Convert.ToInt32(TextBox1.Text);
            y = Convert.ToInt32(TextBox2.Text);
            TextBox3.Text = obj.mul(x,y).ToString();
        }
        protected void Button4_Click(object sender,EventArgs e) {
            double x, y;
            x = Convert.ToInt32(TextBox1.Text);
            y = Convert.ToInt32(TextBox2.Text);
            TextBox3.Text = obj.div(x,y).ToString();
```

```
        }
    }
}
```

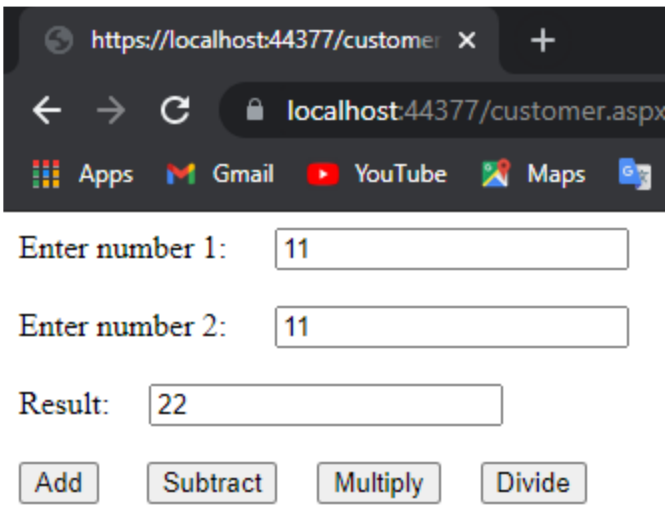
Service1.svc.cs

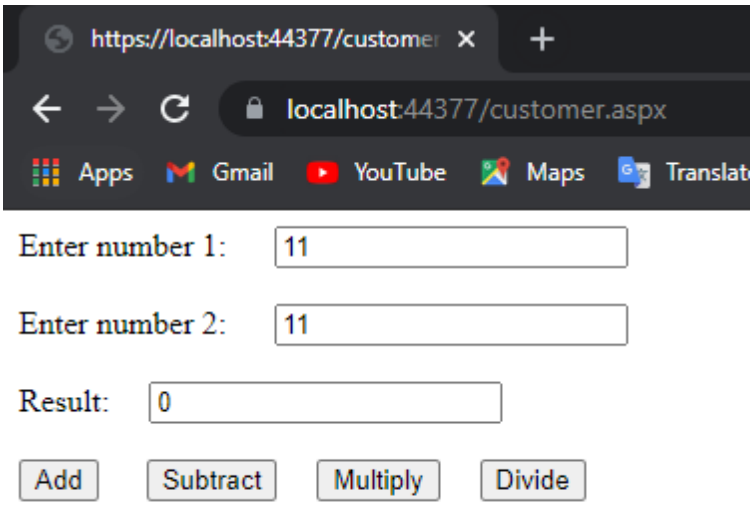
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.Text;
namespace WCFAapplication {
    // NOTE: You can use the "Rename" command on the "Refactor" menu to change the class name "Service1" in code, svc and config file together.
    // NOTE: In order to launch WCF Test Client for testing this service, please select Service1.svc or Service1.svc.cs at the Solution Explorer and start debugging.
    public class Service1:IService1 {
        public double add(double a,double b) {
            return a + b;
        }
        public double sub(double a,double b) {
            return a - b;
        }
        public double mul(double a,double b) {
            return a * b;
        }
        public double div(double a,double b) {
            return a / b;
        }
    }
}
```

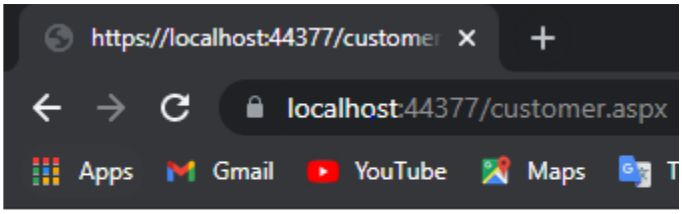
WCFAapplication

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.Text;
namespace WCFAapplication {
```

```
    // NOTE: You can use the "Rename" command on the "Refactor"
menu to change the interface name "IService1" in both code and config
file together.
    [ServiceContract]
    public interface IService1 {
        [OperationContract]
        double add(double a,double b);
        [OperationContract]
        double sub(double a,double b);
        [OperationContract]
        double mul(double a,double b);
        [OperationContract]
        double div(double a,double b);
    }
}
```





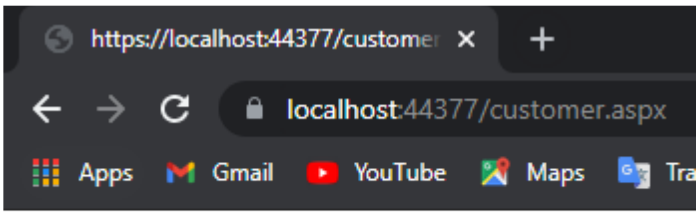


Enter number 1: 11

Enter number 2: 11

Result: 121

Add Subtract Multiply Divide



Enter number 1: 11

Enter number 2: 11

Result: 22

Add Subtract Multiply Divide

Practical 24

Aim: Design a simple MVC application to demonstrate use of ActionResult & ViewResult Method, ViewBag Object.

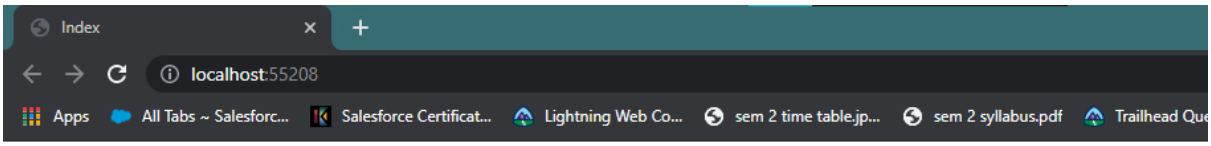
HomeController

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

namespace MVC.Controllers
{
    public class HomeController : Controller
    {
        // GET: Home
        public ViewResult Index()
        {
            int hour = DateTime.Now.Hour;
            ViewBag.Greeting = hour < 12 ? "Good Moring" : "Good Day";
            return View();
        }
    }
}
```

Index.cshtml

```
@{
    Layout = null;
}

<!DOCTYPE html>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <title>Index</title>
</head>
<body>
    <div>
```

```
        <b>@ViewBag.Greeting Hello World (from the view)</b>
    </div>
</body>
</html>
```



Good Day Hello World (from the view)

Practical 25

Aim: Design a simple Data-Entry Application(for Customer) with MVC using following:

- **Creating & accessing strongly typed View & model**
- **Automatically implemented properties,**
- **Html helper Methods,**
- **Validations,**
- **Style sheet for highlighting Invalid fields**
- **Bootstrap functionality**

```
using CustomerMVC_APP.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;

namespace CustomerMVC_APP.Controllers
{
    public class HomeController : Controller
    {
        // GET: Home
        public ActionResult Index()
        {
            return View();
        }

        [HttpGet]
        public ViewResult CustomerInput()
        {
            return View();
        }
        [HttpPost]
        public ViewResult CustomerInput(Customer C1)
        {
            if (ModelState.IsValid)
            {
                return View("CustomerDisplayed", C1);
            }
            else
                return View();
```

```
        }
    }
}
```

Customer

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;
namespace CustomerMVC_APP.Models
{
    public class Customer
    {
        [Required(ErrorMessage ="Please Enter ID")]
        public int CustID { get; set;}
        [Required(ErrorMessage = "Please Enter Name")]
        public string CustName { get; set; }
        [Required(ErrorMessage = "Please Enter Address")]
        public string CustAdd { get; set; }

    }
}
```

Index.cshtml

```
@{
    Layout = null;
}

<!DOCTYPE html>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <link href="~/Content/bootstrap.css" rel="stylesheet" />
    <link href="~/Content/bootstrap-theme.css" rel="stylesheet" />
    <title>Index</title>
    <style>

    </style>
</head>
```

```
<body >

        <div class="text-center">
            <b>Customer Information System to display all the customers
details.</b>
            <div class="btn-success">
                @Html.ActionLink("CustomerInputLink", "CustomerInput")
            </div>
    </div>
</body>
</html>
```

CustomerInput.cshtml

```
@model CustomerMVC_APP.Models.Customer

@{
    Layout = null;
}

<!DOCTYPE html>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <title>CustomerInput</title>
    <link href="~/Content/StyleSheet1.css" rel="stylesheet" />
</head>
<body>
    <div class="panel-success">
        <div class="panel-heading">
            <div class="panel-body">
                @using (Html.BeginForm())
```

```
            {
                @Html.ValidationSummary()
                <div class="form-group">
                    <p>Customer ID:   @Html.TextAreaFor(x =>
x.CustID)</p>
                    <p>Customer Name:  @Html.TextAreaFor(x =>
x.CustName)</p>
                    <p>Customer Address:  @Html.TextAreaFor(x =>
x.CustAdd)</p>
                    <input id="Submit1" type="submit" value="submit" />
                </div>
            }
        </div>
    </div>
</body>
</html>
```

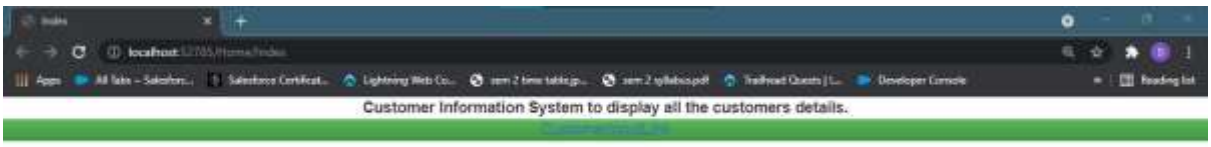
CustomerDisplayed.cshtml

```
@model CustomerMVC_APP.Models.Customer

@{
    Layout = null;
}

<!DOCTYPE html>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <title>CustomerDisplayed</title>
</head>
<body>
    <div>
        <h1>Customer Information System</h1>
        <p>
            Customer ID : @Model.CustID
        </p>
        <p>
            Customer Name : @Model.CustName
        </p>
        <p>
```

```
            Customer Address : @Model.CustAdd
        </p>
    </div>
</body>
</html>
```

StyleSheet1.css

```
.field-validation-error{
    color:#F00;
}
.field-validation-valid{
    display:none;
}
.input-validation-error{
    border:1px solid #f00;
    background-color:#fee;
}
.validation-summary-errors{
    font-weight:bold;
    color:#f00;
}
 .validation-summary-valid{
     display:none;
 }
```



- **Please Enter ID**
- **Please Enter Name**
- **Please Enter Address**

Customer ID:

Customer Name:

Customer Address:

submit

Customer Information System

Customer ID : 1

Customer Name : Book

Customer Address : servify