Practical No: 10

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

CODE:

1) WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="WebForm1.aspx.cs"
Inherits="Connected_1.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div style="background-color:cadetblue">
          <center><h2>Student Info</h2>
           </center>
           <asp:Label ID="Label1" runat="server" Text="Name:" Font-
Bold="True" Font-Size="15pt"></asp:Label>
   <asp:TextBox ID="TextBox1" runat="server" Font-
Bold="True" Font-Size="15pt"></asp:TextBox>
          <br />
          <br />
          <asp:Label ID="Label2" runat="server" Text="RollNo:" FontBold="True" Font-
Size="15pt"></asp:Label>
 <asp:TextBox ID="TextBox2" runat="server" Font-Bold="True" Font-
Size="15pt"></asp:TextBox>
          <br />
          <br />
          <asp:Label ID="Label3" runat="server" Text="Sem:" Font-
Bold="True" Font-Size="15pt"></asp:Label>
      <asp:TextBox ID="TextBox3" runat="server"
Font-Bold="True" Font-Size="15pt"></asp:TextBox>
          <br />
          <br />
          <asp:Button ID="Button1" runat="server" Font-Bold="True"
OnClick="Button1_Click" Text="Select" Font-Size="15pt" />
 
          <asp:Button ID="Button2" runat="server" Font-Bold="True"
Text="Insert" Font-Size="15pt" OnClick="Button2_Click" />  
          <asp:Button ID="Button3" runat="server" Font-Bold="True"
Text="Update" Font-Size="15pt" OnClick="Button3_Click" />  
          <asp:Button ID="Button4" runat="server" Font-Bold="True"
Text="Delete" Font-Size="15pt" OnClick="Button4_Click" />
          <br />
          <br />
```

Name: Patel Arun Ramjanak   **Roll No : 26**

```
        <asp:Label ID="Label4" runat="server" Text="Roll No" Font-
Bold="True" Font-Size="15pt" ></asp:Label>  
        <asp:Label ID="Label5" runat="server" Text="Name" Font-
Bold="True" Font-Size="15pt" ></asp:Label>
 
        <asp:Label ID="Label6" runat="server" Text="Sem" Font-
Bold="True" Font-Size="15pt" ></asp:Label>
        <br />
        <br />
                <asp:Label ID="Label7" runat="server" Font-Bold="True" FontSize="15pt"
        Text="Label" Visible="False"></asp:Label>
         </div>
 </form>
 </body>
</html>
```

2) WebForm1.aspx.cs

```csharp
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.Drawing;
using System.Text;
using System.Data.SqlClient;
namespace Connected_1
{
public partial class WebForm1 : System.Web.UI.Page
{
        SqlConnection con = new SqlConnection();
        SqlDataReader dr;
        SqlCommand cmd;
        protected void Page_Load(object sender, EventArgs e)
        {
                con.ConnectionString = @"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\hp\source\repos\C
onnected-1\Connected-1\App_Data\Database1.mdf;Integrated Security=True";
                con.Open();
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            int roll = Convert.ToInt16(TextBox2.Text);
        cmd = new SqlCommand("select * from  Student where RollNo='" + roll + "'", con);
        dr = cmd.ExecuteReader();
          Label4.Visible=true;
          Label5.Visible = true;
          Label6.Visible = true;
          Label7.Visible = false;
          if (dr.Read())
          {
              Label4.Text = dr[0].ToString();
```

Name: Patel Arun Ramjanak   **Roll No : 26**

```csharp
                Label5.Text = dr[1].ToString();
                Label6.Text = dr[2].ToString();
            }
            dr.Close();
        }
    protected void Button2_Click(object sender, EventArgs e)
    {
                        string nm, sem;
                        int roll;
                        nm = TextBox1.Text;
                        roll = Convert.ToInt16(TextBox2.Text);
                        sem = TextBox3.Text;
                        string qry = "insert into Student(Name,RollNo,Sem)values('" + nm +
"'," + roll + ",'" + sem + "')";
                        cmd = new SqlCommand(qry, con);
                        cmd.ExecuteNonQuery();
                        Label7.Visible = true;
                        Label7.Text="data inserted sucessfully";
                        Label4.Visible = false;
                        Label5.Visible = false;
                        Label6.Visible = false;
    }
    protected void Button3_Click(object sender, EventArgs e)
    {
                        string nm, sem;
                        int roll;
                        nm = TextBox1.Text;
                        roll = Convert.ToInt16(TextBox2.Text);
                        sem = TextBox3.Text;
                        cmd = new SqlCommand("update Student set Name='" + nm +
"',Sem='" + sem + "' where RollNo='" + roll + "'", con);
                        cmd.ExecuteNonQuery();
                        Label7.Visible = true;
                        Label7.Text = "data updated sucessfully";
                        Label4.Visible = false;
                        Label5.Visible = false;
                        Label6.Visible = false;
    }
    protected void Button4_Click(object sender, EventArgs e)
    {
                        int roll = Convert.ToInt16(TextBox2.Text);
                        cmd = new SqlCommand("delete from  Student  where RollNo='" +
roll + "'", con);
                        cmd.ExecuteNonQuery();
                        Label7.Visible = true;
                        Label7.Text = "data deleted sucessfully";
                        Label4.Visible = false;
                        Label5.Visible = false;
                        Label6.Visible = false;
    }
    }
}
```

OUTPUT:

<u>Practical No: 11</u>

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 Label on click of submit button.(Disconnected Arcitechture)

CODE:

1)WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="disconnected.WebForm1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
     <asp:Label ID="Label5" runat="server" Font-Bold="True" FontUnderline="True"
       Text="Quiz Compatation"></asp:Label>
     <br />
     <br />
     <asp:Label ID="Label1" runat="server" Text="Q.1]National animal of
India?"></asp:Label>
     <br />
     <br />
     <asp:RadioButton ID="RadioButton1" runat="server" Text="Lion" />  
     <asp:RadioButton ID="RadioButton3" runat="server" Text="Dog" />
     <br />
     <asp:RadioButton ID="RadioButton2" runat="server" Text="Tiger" />
 <asp:RadioButton ID="RadioButton4" runat="server" Text="Deer" />
     <br />
     <br />
     <asp:Label ID="Label2" runat="server" Text="Q.2]National bird of
India?"></asp:Label>
     <br />
     <br />
     <asp:RadioButton ID="RadioButton5" runat="server" Text="Peacock" />  
     <asp:RadioButton ID="RadioButton7" runat="server" Text="Eagle" />
     <br />
     <asp:RadioButton ID="RadioButton6" runat="server" Text="Crow" />
     
     <asp:RadioButton ID="RadioButton8" runat="server" Text="Kite" />
     <br />
     <br />
```

```
    <asp:Label ID="Label3" runat="server" Text="Q.3]National fruit of
India?"></asp:Label>
<br />
    <br />
    <asp:RadioButton ID="RadioButton9" runat="server" Text="Apple" />
  
    <asp:RadioButton ID="RadioButton12" runat="server" Text="Cherry" /> <br />
    <asp:RadioButton ID="RadioButton10" runat="server" Text="Mango" />
 <asp:RadioButton ID="RadioButton11" runat="server" Text="Orange" />
    <br /><br />
    <asp:Label ID="Label4" runat="server" Text="Q.4]National tree of
India?"></asp:Label>
    <br />    <br />
    <asp:RadioButton ID="RadioButton13" runat="server" Text="Neem Tree" />
   
    <asp:RadioButton ID="RadioButton16" runat="server" Text="Peepal
Tree" /> <br />
    <asp:RadioButton ID="RadioButton14" runat="server" Text="Banyan Tree" />
 
<asp:RadioButton ID="RadioButton15" runat="server" Text="Mango Tree" />
    <br /> <br />
    <asp:Button ID="Button1" runat="server" Font-Bold="True"
onclick="Button1_Click" Text="Submit" />
    <br />  <br />
    <asp:Label ID="Label6" runat="server" Text="Label"></asp:Label>

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

2)WebForm1.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.Drawing;
using System.Text;
using System.Data.SqlClient;

namespace disconnected
{
   public partial class WebForm1 : System.Web.UI.Page
   {
     SqlConnection con = new SqlConnection();
     protected void Page_Load(object sender, EventArgs e)
     {
       con.ConnectionString = @" Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\hp\source\r
epos\disconnected\disconnected\App_Data\Database1.mdf;Integrated Security=True";
       con.Open();
```

Name: Patel Arun Ramjanak   **Roll No : 26**

```
        }
     protected void Button1_Click(object sender, EventArgs e)
     {
        string q = "select answer from quiz";
        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["answer"].ToString())
            { count++; }
          }
          if (RadioButton5.Checked)
          {
            if (RadioButton5.Text == row["answer"].ToString())
            { count++; }
          }
          if (RadioButton10.Checked)
          {
            if (RadioButton10.Text == row["answer"].ToString())
            { count++; }
          }
          if (RadioButton14.Checked)
          {
            if (RadioButton14.Text == row["answer"].ToString())
            { count++; }
          }
        }
        Label6.Text = "Results is: " + count.ToString();          con.Close();
     }
   } }
```

OUTPUT:

Practical No: 12

Aim: Write a program on LinqToSQLClass. Show select, selectWith, insert, update, delete command on Course/Product Table.

CODE:

1) Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeFile="Default.aspx.cs" Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div style="background-color:Aqua">
   <h1>Fetching data using LINQ</h1>
     Enter product id:<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br />
     Enter product name:<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
     Enter product price:<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br />
     <br />
     <asp:Button ID="Button1" runat="server" Text="Add" onclick="Button1_Click" />
     <asp:Button ID="Button2" runat="server" Text="Update" onclick="Button2_Click" />
     <asp:Button ID="Button3" runat="server" Text="Delete" onclick="Button3_Click" />
     <br /> <br />
     <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
       DataSourceID="LinqDataSource1">
       <Columns>
         <asp:BoundField DataField="ID" HeaderText="ID" SortExpression="ID" />
         <asp:BoundField          DataField="PNAME"          HeaderText="PNAME"
SortExpression="PNAME" />
         <asp:BoundField          DataField="PPRICE"          HeaderText="PPRICE"
SortExpression="PPRICE" />
       </Columns>
     </asp:GridView>
     <asp:LinqDataSource ID="LinqDataSource1" runat="server"
       ContextTypeName="DataClassesDataContext" EntityTypeName=""
TableName="PRODUCTs">
     </asp:LinqDataSource> <br />
     <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>

</div>
   </form>
</body>
</html>
```
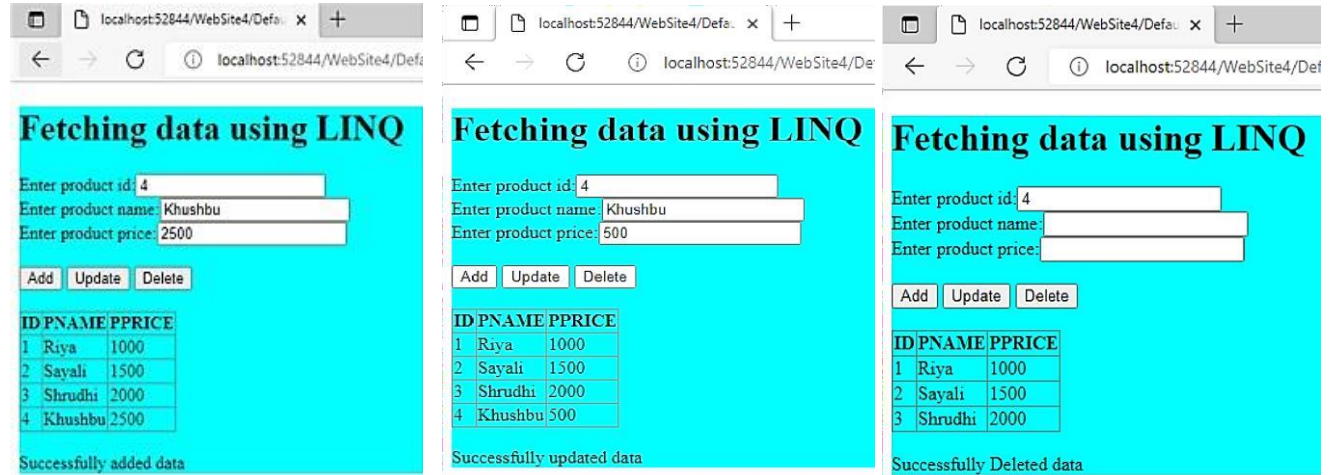
2) Default.aspx.cs

```
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
{ protected void Page_Load(object sender, EventArgs e)
   {
   }
   protected void Button1_Click(object sender, EventArgs e)
   {
     var d = new DataClassesDataContext();
     var c = new PRODUCT();
     c.PNAME = TextBox1.Text;
     c.PPRICE = TextBox2.Text;
     c.ID = Convert.ToInt32(TextBox3.Text);
     d.PRODUCTs.InsertOnSubmit(c);
     d.SubmitChanges();
     GridView1.DataBind();
     Label1.Text = "Successfully added data";
   }protected void Button2_Click(object sender, EventArgs e)
   { Svar d = new DataClassesDataContext();
     PRODUCT c = d.PRODUCTs.FirstOrDefault(e1 =>
e1.PNAME.Equals(TextBox1.Text));
c.PNAME = TextBox1.Text;
     c.PPRICE = TextBox2.Text;
     d.SubmitChanges();
     GridView1.DataBind();
     Label1.Text = "Successfully updated data";
   } protected void Button3_Click(object sender, EventArgs e)
   {
       var d = new DataClassesDataContext();
       PRODUCT c = d.PRODUCTs.FirstOrDefault(e1 =>
       e1.ID.Equals(Convert.ToInt32(TextBox3.Text)));
       d.PRODUCTs.DeleteOnSubmit(c);
       d.SubmitChanges();
       GridView1.DataBind();
     Label1.Text = "Successfully Deleted data";
}
}
```

OUTPUT:

Practical No: 13

Aim: Create a Web application to implement Simple Stored Procedure.

CODE:

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.master"
AutoEventWireup="true"CodeBehind="Default.aspx.cs" Inherits="pract12._Default" %>
<asp:Content ID="HeaderContent" runat="server" ContentPlaceHolderID="HeadContent">
</asp:Content>
<asp:Content ID="BodyContent" runat="server" ContentPlaceHolderID="MainContent">
   <h2>
     Welcome to sTORED PROCEDURE EXAMPLE!!</h2>
   </h2>
   <p>To learn more about ASP.NET visit <a href="http://www.asp.net" title="ASP.NET
Website">www.asp.net</a>.</p>
   <p>You can also find <a href="http://go.microsoft.com/fwlink/?LinkID=152368&amp;
clcid=0x409" title="MSDN ASP.NET Docs">documentation on ASP.NET at MSDN</a>.
   </p>
</asp:Content>
```

webForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pract12.WebForm1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
     <asp:Label ID="Label2" runat="server"
       Text="Welcome to Stored Procedure Example"></asp:Label>
     <br />
     <asp:Label ID="Label1" runat="server" Text="Top Rankers"></asp:Label>
```

Name: YASHASHREE KULKARNI.   **Roll No : 15**

```
    <br /><br /><br />
    <asp:Button ID="Button1" runat="server" Text="Show Result"
        onclick="Button1_Click" />
  </form>
</body>
</html>
```
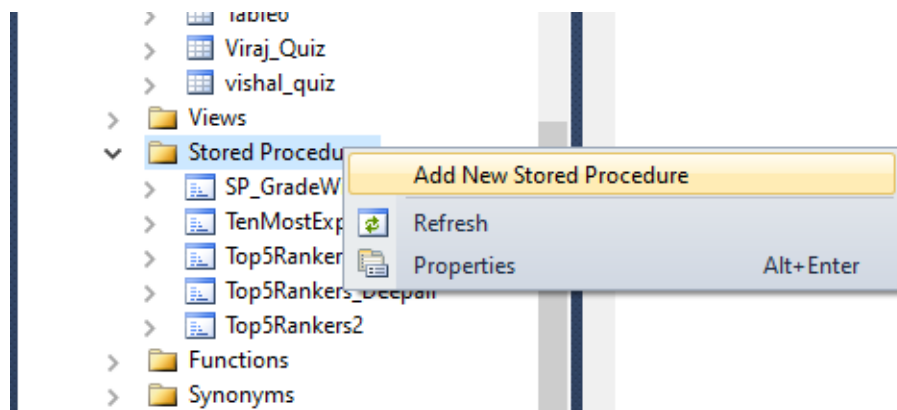
WebForm1.aspx.cs

```csharp
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;
namespace pract12
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlConnection conn = null;
        SqlDataReader rdr = null;
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            conn = new SqlConnection("Data Source=VIVASERVER;Initial Catalog=abc1;User
ID=sa;Password=viva@123");
conn.Open();
SqlCommand cmd = new SqlCommand(
  "Top5Rankers", conn);
// 2. set the command object so it knows
// to execute a stored procedure
cmd.CommandType = CommandType.StoredProcedure;
// execute the command
rdr = cmd.ExecuteReader();
int count = 1;
// iterate through results, printing each to console
while (rdr.Read())
{
   Label1.Text += " <br />";
   Label1.Text += "\t" + count.ToString() + rdr[0].ToString();
   count++;
}
        }
    }
}
```

dbo.deepali_storedp...le(vivaserver.abc1) ✕	Default.aspx	dbo.Top5Rankers_De...e(vivaserver.abc1)	WebForm1.aspx.cs	WebForm1.aspx

	Column Name	Data Type	Allow Nulls
▶	RollNo	int	☑
	Name	varchar(50)	☑
	Total_Marks	int	☑
			☐

Name: YASHASHREE KULKARNI.   **Roll No : 15**

deepali_storedproce...ry(vivaserver.abc1) ✕	dbo.deepali_storedp...le(vivaserver.abc1)	Default.aspx	dbo.Top5Rankers_De...e(vivaserver.abc1)	▼

	RollNo	Name	Total_Marks
▶	40	Siddhi	500
	53	Nidhi	400
	45	Deepali	400
	15	Yashu	450
	55	Saurabh	500
	34	Pratiksha	350
	7	Priyanka	550
	8	Shivani	800
	10	Puja	490
	56	Piya	300
*	NULL	NULL	NULL

```
        Table6
   >    Viraj_Quiz
   >    vishal_quiz
 >    Views
 ⌄    Stored Procedu
   >    SP_GradeW            Add New Stored Procedure
   >    TenMostExp      ⟳   Refresh
   >    Top5Ranker           Properties          Alt+Enter
   >    Top5Rankers_Deepali
   >    Top5Rankers2
 >    Functions
 >    Synonyms
```

deepali_storedproce...ry(vivaserver.abc1)	dbo.deepali_storedp...le(vivaserver.abc1)	Default.aspx	dbo.Top5Rankers_De...e(vivaserver.abc1) ✕

```sql
ALTER PROCEDURE dbo.Top5Rankers_Deepali
AS
select TOP 5 Name
from deepali_storedprocedure
order by Total_Marks DESC
RETURN
```

OUTPUT:

Default.aspx	dbo.Top5Rankers_De...e(vivaserver.abc1)	WebForm1.aspx.cs	WebForm1.aspx ✕	deepali_storedproce...ry(vivaserver.abc1)

| body |

Welcome to Stored Procedure Example
Top Rankers

[Show Result]

Name: YASHASHREE KULKARNI.   **Roll No : 15**

PRACTICAL NO: 14

Aim: Create a Web application to implement Parameterized Stored Procedure.

CODE:

1) Webform1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="stored_procedure.WebForm2" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server"> <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div style="background-color:cadetblue"> <center><h2>
        WELCOME TO STORED PROCEDURE EXAMPLE-2!!</h2>
            <asp:Table ID="Table1" runat="server" Font-Bold="True" Font-Size="15pt">
        <asp:TableRow>
        <asp:TableCell Text="Enter Start Range"></asp:TableCell>
        <asp:TableCell><asp:TextBox ID="TextBox1" runat="server">
            </asp:TextBox></asp:TableCell>
        </asp:TableRow>
        <asp:TableRow>
        <asp:TableCell Text="Enter End Range"></asp:TableCell>
        <asp:TableCell><asp:TextBox ID="TextBox2" runat="server">
            </asp:TextBox></asp:TableCell>
        </asp:TableRow>
        <asp:TableRow>
        <asp:TableCell ><asp:Button ID="Button1" runat="server" Text="Show
Result" onclick="Button1_Click" /></asp:TableCell>
        </asp:TableRow> </asp:Table>
            <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-
Size="15pt"></asp:Label>
            </center>
        </div>
    </form>
</body>
```

Name: YASHASHREE KULKARNI.   **Roll No : 15**

</html>

2) WebForm1.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;

namespace stored_procedure
{ public partial class WebForm2 : System.Web.UI.Page {
        SqlConnection conn = null;
        SqlDataReader rdr = null;
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        { conn = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\hp\source\repos\stored
procedure\stored procedure\App_Data\Database1.mdf;Integrated Security=True");
            conn.Open();
            // 1. create a command object identifying
            // the stored procedure
            SqlCommand cmd = new SqlCommand(
                    "SP_GradeWiseResult", conn);

            // 2. set the command object so it knows
            // to execute a stored procedure
            cmd.CommandType = CommandType.StoredProcedure;

            // 3. add parameter to command, which
            // will be passed to the stored procedure cmd.Parameters.Add( new
            SqlParameter("@start", Convert.ToInt32(TextBox1.Text)));
            cmd.Parameters.Add( new SqlParameter("@end",
                Convert.ToInt32(TextBox2.Text)));
            // execute the command rdr =
            cmd.ExecuteReader();
            // iterate through results, printing each to Label while (rdr.Read())
            {
                Label1.Text += rdr["STUD_NAME"].ToString() + "\t" +
rdr["TOTAL_MARKS"].ToString();
                Label1.Text += " <br />";
            }
        }
    }
}
```

OUTPUT:

WELCOME TO STORED PROCEDURE EXAMPLE-2!!
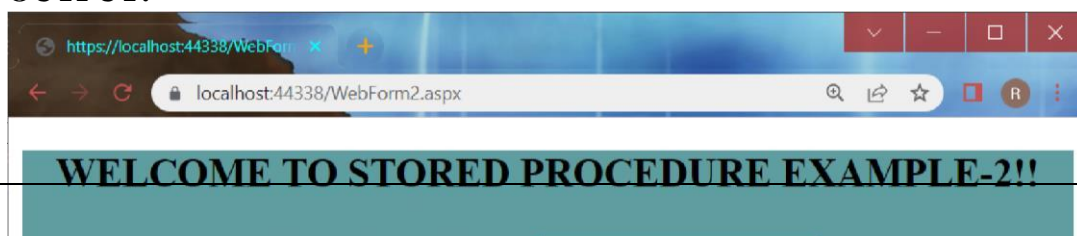
Practical No: 15

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

CODE:

Default.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        View State Page<br />
        <br />
        PageCounter:
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
        <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
            style="margin-left: 41px" Text="Add count" Width="158px" />
        <br /><br />
    </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
{
```

Name: YASHASHREE KULKARNI.   **Roll No : 15**

```csharp
    public int counter
    {
        get
        {
            if (ViewState["pcounter"] != null)
            {
                //if visited for second time onwards
                return ((int)ViewState["pcounter"]);
            }
            else
            {
                //if visited for first time
                return 0;
            }
        }
        set
        {
            ViewState["pcounter"] = value;
        }
    }
    protected void Page_Load(object sender, EventArgs e)
    {
        Label1.Text = counter.ToString();
        counter++;
    }
    protected void Button1_Click(object sender, EventArgs e)
    {

    }
}
```

OUTPUT:

| localhost:51304/pract15crosspg/ × | localhost:51627/pract16View_Sta × | + |

← → C (i) localhost:51627/pract16View_State_session/Default.aspx

View State Page

PageCounter: 5   Add count
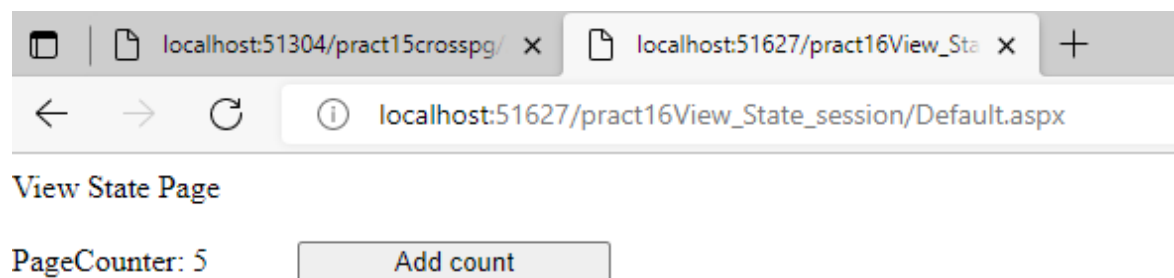
Practical No: 16

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

CODE:

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
      <br />
    <asp:HiddenField ID="HiddenField1" runat="server" Value="0" />
    <br />
    <asp:Button ID="Button1" runat="server" Text="No action Button"
      onclick="Button1_Click" />
    <br />
    <br />
    <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
    <br />
    <br />
    </div>
  </form>
</body>
</html>
```

Default.aspx.cs

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

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```
using System.Web.UI.WebControls;
public partial class _Default : 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)
    {
        //this is No Action Button Click
    }
}
```

OUTPUT:
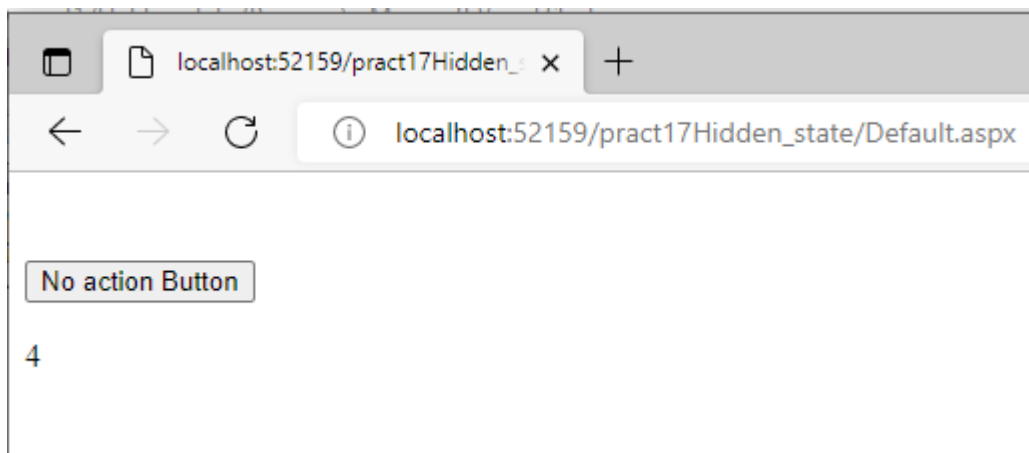
Practical No: 17

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

CODE:

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
   <asp:Label ID="Label1" runat="server" Text=""></asp:Label><br /><br />
<asp:Label ID="Label2" runat="server" Text=""></asp:Label><br /><br />
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button"/>
   </div>
   </form>
</body>
</html>
```
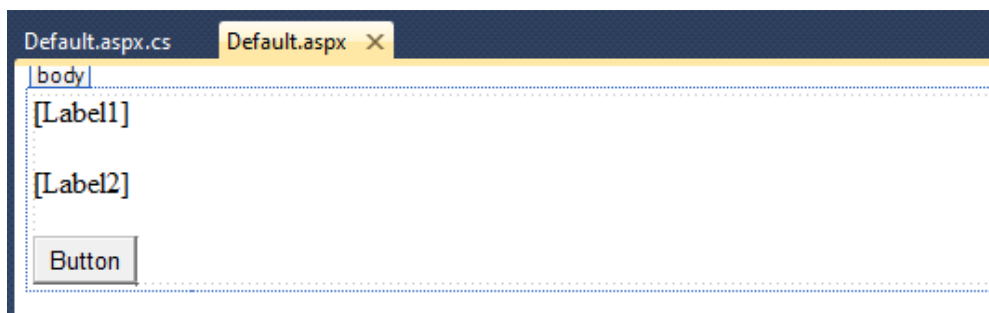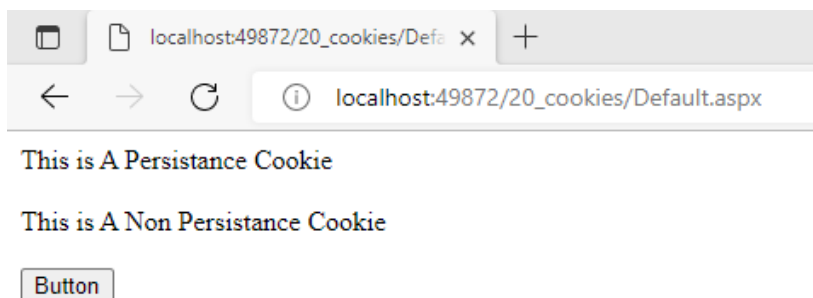
Default.aspx.cs

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

Name: YASHASHREE KULKARNI.   **Roll No : 15**
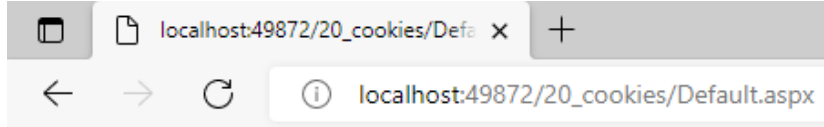
```
using System.Web.UI.WebControls;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (Request.Cookies["Persistance"] != null) Label1.Text =
Request.Cookies["Persistance"].Value;
        else
            Label1.Text = "";
        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);

    }
}
```

Default.aspx.cs	Default.aspx ×

|body|

[Label1]

[Label2]

Button

OUTPUT:

localhost:49872/20_cookies/Default.aspx

This is A Persistance Cookie

This is A Non Persistance Cookie

Button

Name: YASHASHREE KULKARNI.   **Roll No : 15**

This is A Non Persistance Cookie

Button

<u>Practical No:18</u>

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

CODE:

Default.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <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>
```

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```html
<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>
```
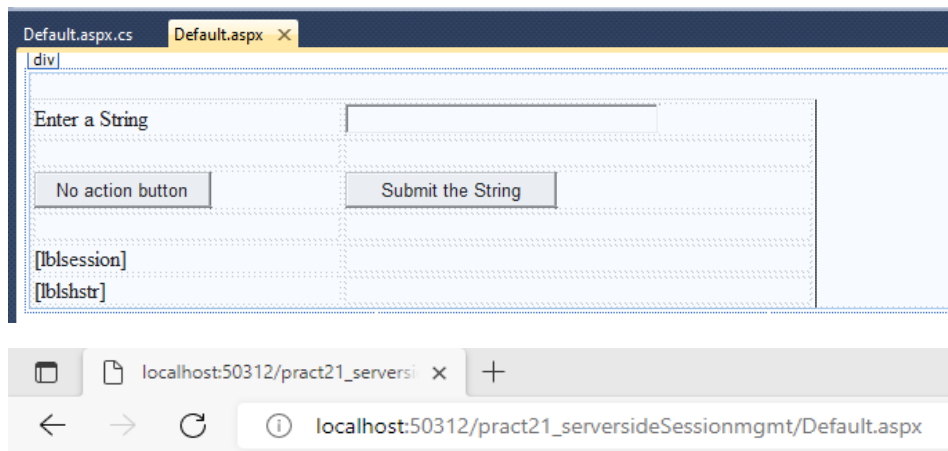
Default.aspx.cs

```csharp
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
{
    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"];
```

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   }
}

OUTPUT:

Default.aspx.cs | Default.aspx ×
|div|

Enter a String

No action button   Submit the String

[lblsession]
[lblshstr]

---

localhost:50312/pract21_serversi × +

← → C ⓘ localhost:50312/pract21_serversideSessionmgmt/Default.aspx

Enter a String   henry
No action button   Submit the String
henry
henry

<u>Practical No: 19</u>

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

CODE:

Web1:-
WebService.cs:-
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;
/// Summary description for WebService
 [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.
```

```csharp
// [System.Web.Script.Services.ScriptService]
public class WebService : System.Web.Services.WebService {
    public WebService () {
        //Uncomment the following line if using designed components
        //InitializeComponent();
    }
    [WebMethod]
    public string getname(string nm)
    { return nm; }
    [WebMethod]
    public int getaccountnumber(int a)
    { return a; }
}
```

WebSite1:-
Default.aspx:-

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

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

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

        ENTER NAME: <asp:TextBox ID="TextBox1" runat="server"> </asp:TextBox>
 <br />        <br />
ENTER ACCOUNT NO: <asp:TextBox ID="TextBox2" runat="server"> </asp:TextBox>
<br />        <br />
<asp:Button ID="Button1" runat="server" Text="OK" onclick="Button1_Click" />
<asp:Label ID="Label1" runat="server" Text=" "> </asp:Label>
<br />  <br />
<asp:Label ID="Label2" runat="server" Text=" "> </asp:Label>        <br />

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

Default.aspx.cs:-

```csharp
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
{
```
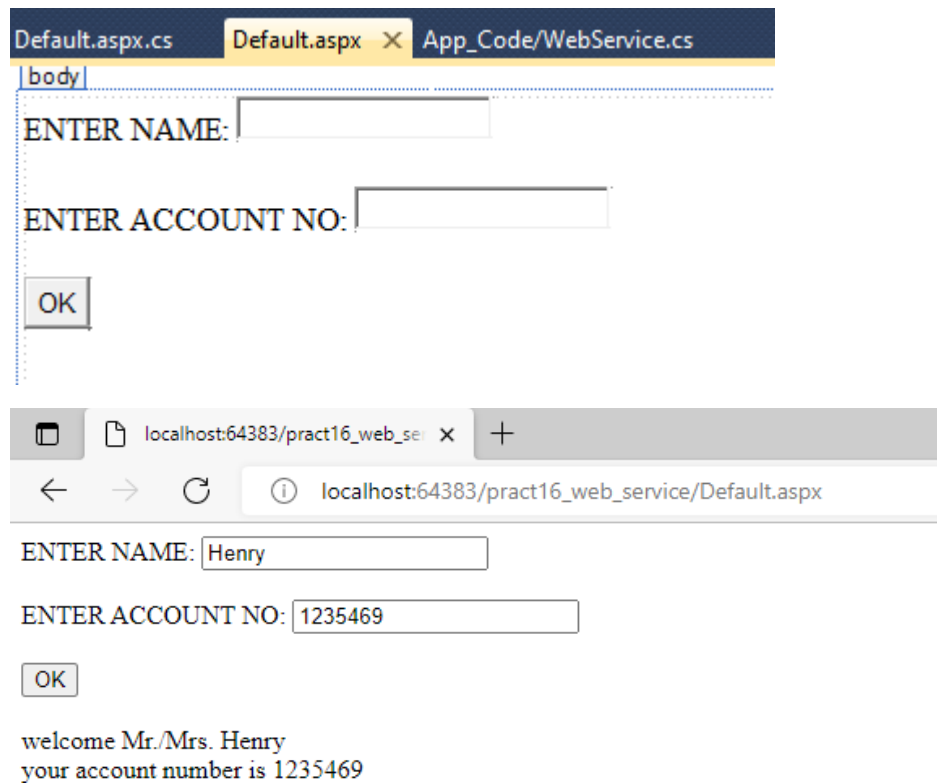
Name: YASHASHREE KULKARNI.   **Roll No : 15**

```csharp
    WebService obj = new WebService();

    protected void Page_Load(object sender, EventArgs e) { }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label2.Text = "welcome Mr./Mrs. " + obj.getname(TextBox1.Text) + "<br/> your
account number is " + obj.getaccountnumber(Convert.ToInt32(TextBox2.Text)).ToString();
    }
}
```

OUTPUT:

Practical No: 20

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

CODE:

IService.cs

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.Text;

// NOTE: You can use the "Rename" command on the "Refactor" menu to change the interface
name "IService" in both code and config file together.
```

```
[ServiceContract]
public interface IService
{
    [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);

}
```

Service.svc.cs

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

// NOTE: You can use the "Rename" command on the "Refactor" menu to change the class
name "Service" in code, svc and config file together.
public class Service : IService
{
    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;      }

}
```

Default.aspx

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

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <asp:Label ID="Label1" runat="server" Text="Enter number 1:
"></asp:Label>    
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br><br>
```

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```
    <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="Button4_Click" />

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

Default.aspx.cs

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

public partial class _Default : System.Web.UI.Page
{
    ServiceReference1.ServiceClient obj = new ServiceReference1.ServiceClient();


    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();        }
```
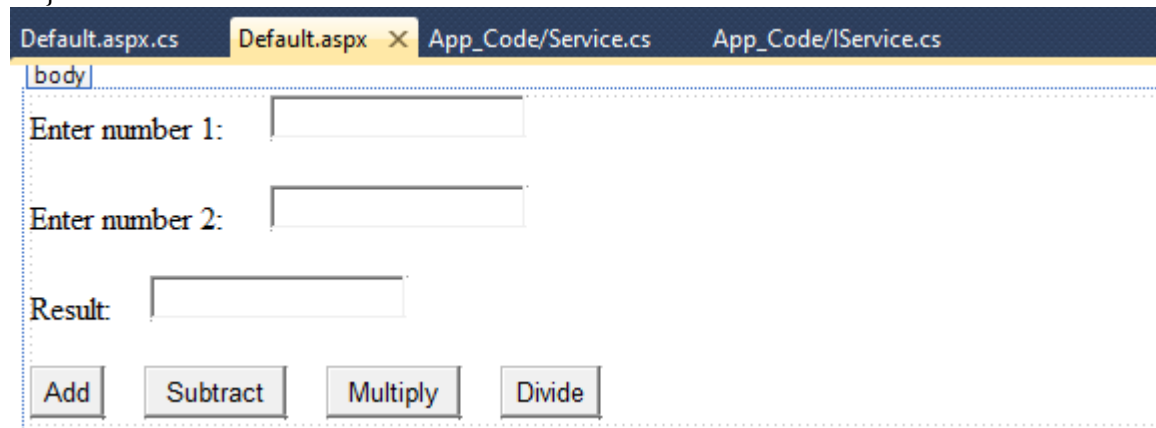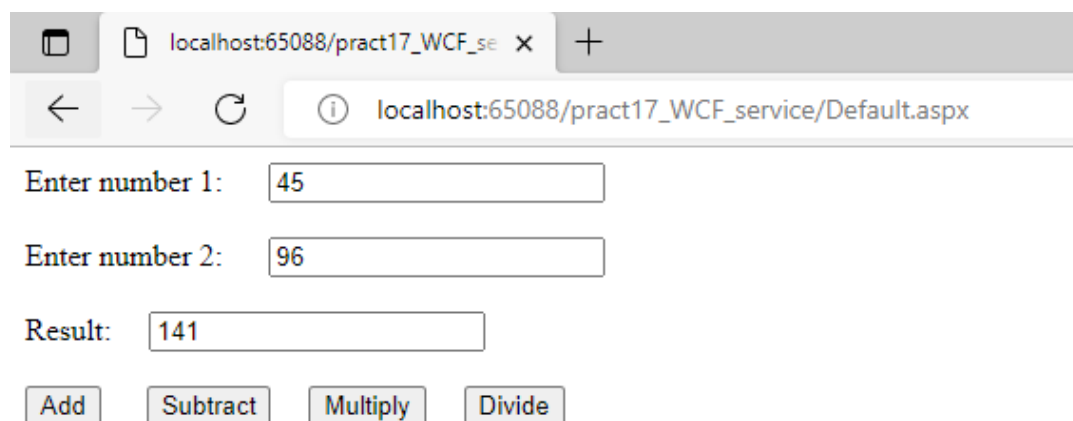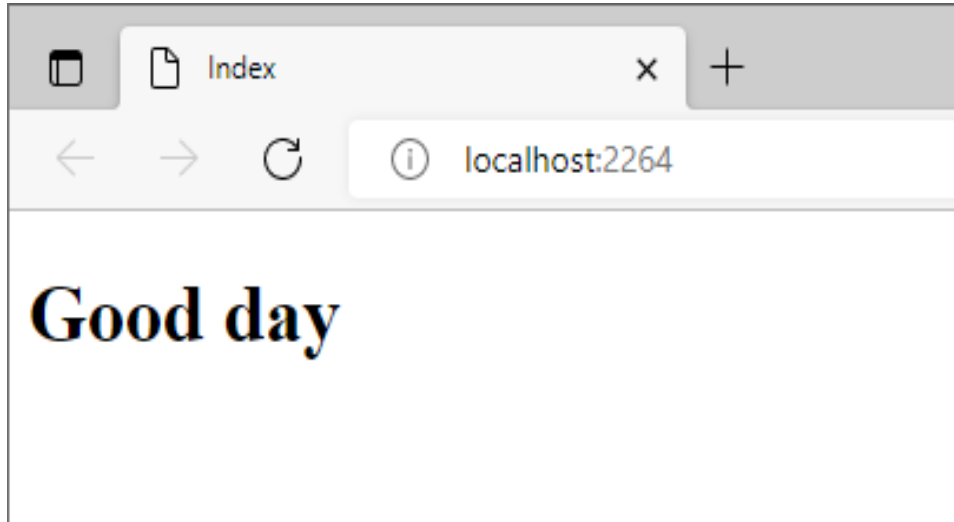
Name: YASHASHREE KULKARNI.   **Roll No : 15**

```csharp
    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();  }

  }
```


OUTPUT:

Practical No: 21

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

CODE:

HomeController.cs:

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
namespace MVCVIEWPRACT22.Controllers
{
   public class HomeController : Controller
```

```
    {
        // GET: /Home/
        public ActionResult Index()
        {
            int hours=DateTime.Now.Hour;
            ViewBag.greeting=hours<12?"Good Morning":"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>
        <h1>@ViewBag.greeting</h1>
    </div>
</body>
</html>
```

OUTPUT:

Index

localhost:2264

Good day

Practical No: 22

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
- Style sheet for highlighting Invalid fields

CODE:

HomeController.cs

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

namespace mvcCustomerpract23.Controllers
{
    public class HomeController : Controller
    {
        //
        // GET: /Home/

        public ViewResult Index()
        {
            return View();
        }
        public ViewResult CustomerInput()
        {
            return View();
        }

    }
}
```

Index.cshtml:

```cshtml
@{
    Layout = null;
}

<!DOCTYPE html>

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

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```html
<body>
    <div>
        <h1>Customer information system allows you to strore and retrieve customer details</h1>
        @Html.ActionLink("Add customer details", "CustomerInput")
    </div>
</body>
</html>
```

Customer.cs:

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace mvcCustomerpract23.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; }
    }
}
```

CustomerInput.cshtml

```html
@model mvcCustomerpract23.Models.Customer
@{Layout = null;}
<!DOCTYPE html>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <link rel="StyleSheet1" type="text/css" href="~/Content/StyleSheet1.css"/>
    <title>CustomerInput</title>
</head>
<body>
    <div>
        @using( Html.BeginForm())
        {
        <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>

        @Html.ValidationSummary()
        <input id="Submit1" type="submit" value="submit" />
        }
        @*Customer ID: <input id="Text1" type="text" />
    Customer Name: <input id="Text2" type="text" />
```
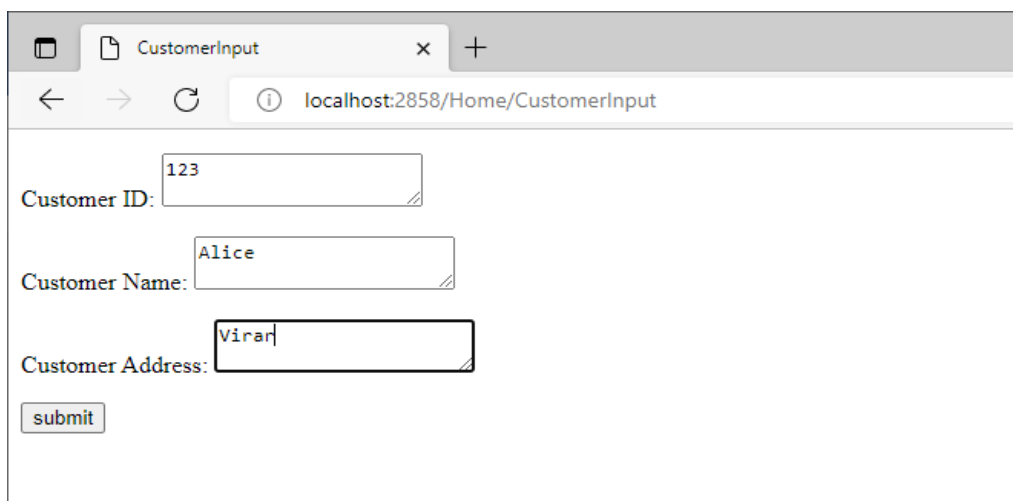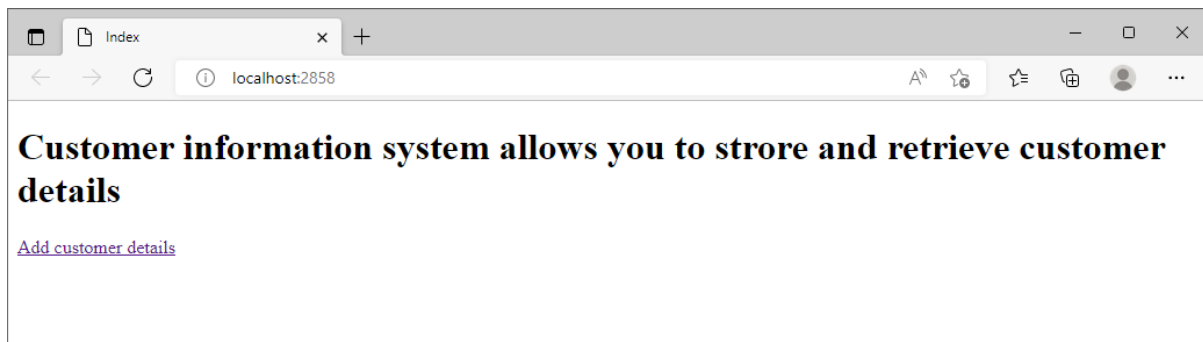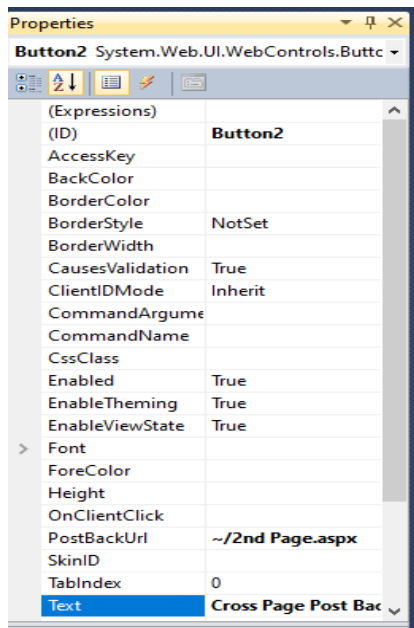
```
    Customer Address:<input id="Text3" type="text" />*@
  </div>
</body>
</html>
```

StyleSheet.css:

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

OUTPUT:

<u>Practical No: 23</u>

Aim: Cross Page Posting in Asp.Net web pages

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server" Text="Enter your name:"></asp:Label>
      <asp:TextBox ID="TextBox1" runat="server" style="margin-left: 27px"
         Width="160px"></asp:TextBox>
      <br /><br />
      <asp:Calendar ID="Calendar1" runat="server"></asp:Calendar>
      <br /><br />
      <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
         Text="Same Page Post Back" Width="182px" />
      <asp:Button ID="Button2" runat="server" onclick="Button2_Click"
         style="margin-left: 76px" Text="Cross Page Post Back" Width="163px"
         PostBackUrl="~/2nd Page.aspx" />
      <br /> <br /><br />
      <asp:Label ID="Label2" runat="server"></asp:Label>
   </div>
   </form>
</body>
</html>
```

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Default.aspx.cs

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label2.Text = "Hello" + TextBox1.Text + "<br/>" + "Your date of birth is" +
Calendar1.SelectedDate.ToShortDateString();
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
    }}
```
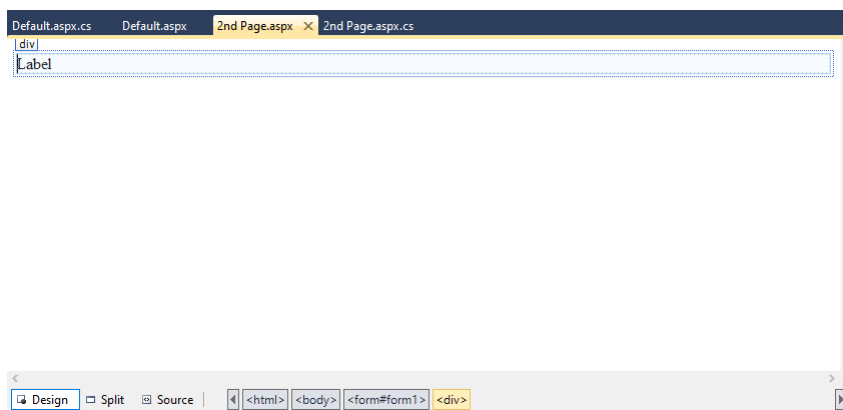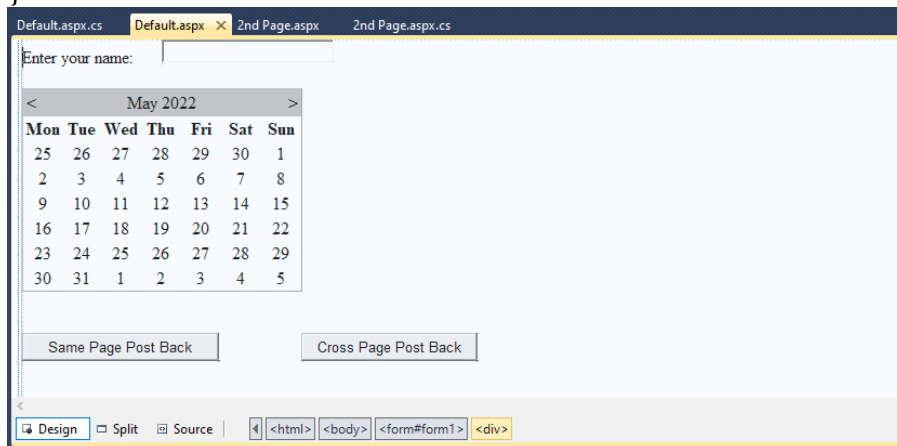
2ⁿᵈ Page.aspx:

```aspx
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="2nd Page.aspx.cs"
Inherits="_2nd_Page" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
    </div>
    </form>
</body>
</html>
```
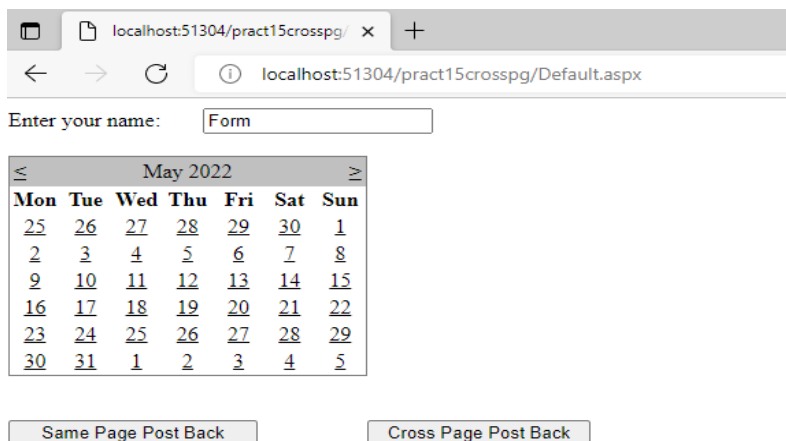
2ⁿᵈ Page.aspx.cs

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class _2nd_Page : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        TextBox textbox2;
```

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```
        Calendar calendar2;
        textbox2 = (TextBox)PreviousPage.FindControl("TextBox1");
        calendar2 = (Calendar)PreviousPage.FindControl("Calendar1");
        Label1.Text = "Hello" + textbox2.Text + "<br/>" + "Your date of birth is" +
calendar2.SelectedDate.ToShortDateString();
    }
}
```


OUTPUT: