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Anjuman-i-Islam's

Akbar Peerbhoy college of Com. and Eco.

M. S. Ali Road, Two Tank Grant Road (EAST), Mumbai -08

B. Sc.(Information Technology)

Course Code :	U	S	I	T	5	P	
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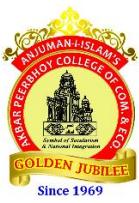
Course Name : _____ Practical

Name of the Student (Mr. / Miss) _____

Roll Number : _____ Class : T. Y. B. Sc. IT

University Exam Seat												
Number												

Submission Date : _____ Teacher's Sign _____



Anjuman- I – Islam 's
Akbar Peerbhoy College of Commerce and Economics
(NAAC Accredited College)
M. S. Ali Road, Mumbai – 400008

B. Sc. (Information Technology)

T. Y. B. Sc IT

CERTIFICATE

This is to certify that the practical work , USIT5P____

" _____ Practical ", is bonafied work of

(Mr./ Miss) _____ bearing University

Exam Seat. No: _____, College Roll Number ____, submitted in partial

fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE in

(INFORMATION TECHNOLOGY) from University of Mumbai.

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a.	Create a web application to demonstrate reading and writing operation with XML.		
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Practical No:01

Working with basic C# and ASP .NET

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

pract1a.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">Enter First Number</asp:Label>

<asp:TextBox ID="textBox1" runat="server"></asp:TextBox><br />

<asp:Label ID="label2" runat="server">Enter Second Number</asp:Label>

<asp:TextBox ID="textBox2" runat="server"></asp:TextBox><br />

<asp:Label ID="label3" runat="server">Enter Third Number</asp:Label>

<asp:TextBox ID="textBox3" runat="server"></asp:TextBox><br />

<asp:Label ID="label4" runat="server">Enter Fourth Number</asp:Label>

<asp:TextBox ID="textBox4" runat="server"></asp:TextBox>

<br /><br />

<asp:Button ID="submit" runat="server" Text="Calculate"
```

```
    onclick="submitButton_Click"/>  
<br /><br />  
<asp:Label ID="result" runat="server"></asp:Label>  
</div></form></body>  
</html>
```

pract1a.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 submitButton_Click(object sender, EventArgs e)  
    {  
        int num1 = Convert.ToInt32(textBox1.Text.ToString());  
        int num2 = Convert.ToInt32(textBox2.Text.ToString());  
        int num3 = Convert.ToInt32(textBox3.Text.ToString());  
        int num4 = Convert.ToInt32(textBox4.Text.ToString());
```

```

int product = num1 * num2 * num3 * num4;

result.Text = "Product of numbers : " + product;

}

```

Output:

The image contains two side-by-side screenshots of a web browser displaying an ASP.NET page at `localhost:63610/pract1a/Default.aspx`.
 The left screenshot shows the user interface with four text input fields labeled 'Enter First Number', 'Enter Second Number', 'Enter Third Number', and 'Enter Fourth Number'. The values entered are 2, 3, 4, and 2 respectively. Below these fields is a 'Calculate' button.
 The right screenshot shows the results of the calculation. It displays the same input fields with values 2, 3, 4, and 2. Below the input fields, the text 'Product of numbers : 48' is displayed, indicating the result of the multiplication.

b) Create an application to demonstrate string operations.

Deafult.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="pract1b" %>
<!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 id="Head1" runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server"><div>
<asp:Label ID="label1" runat="server">Enter First String</asp:Label>
<asp:TextBox ID="textBox1" runat="server" ></asp:TextBox>
<br /><br />
<asp:Label ID="label2" runat="server">Enter Second String</asp:Label>
<asp:TextBox ID="textBox2" runat="server" ></asp:TextBox>
<br /><br />
<asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="true"

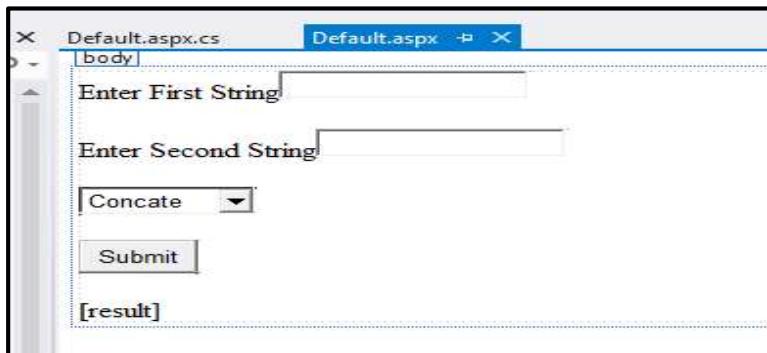
```

```

onselectedindexchanged="DropDownList1_SelectedIndexChanged">
<asp:ListItem>Concat</asp:ListItem>
<asp:ListItem>UpperCase</asp:ListItem>
<asp:ListItem>LowerCase</asp:ListItem>
<asp:ListItem>Reverse</asp:ListItem>
<asp:ListItem>Length</asp:ListItem>
<asp:ListItem>IsEmpty</asp:ListItem>
</asp:DropDownList>
<br /><br />
<asp:Button ID="Submit" runat="server" Text="Submit" onclick="Submit_Click"
style="height: 26px" />
<br /><br />
<asp:Label ID="result" runat="server"></asp:Label>
</div>
</form>
</body>
</html>

```

Design



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 pract1b : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)

```

```
{  
}  
protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)  
{  
}  
protected void Submit_Click(object sender, EventArgs e)  
{  
    String str1 = textBox1.Text.ToString();  
    String str2 = textBox2.Text.ToString();  
    if (DropDownList1.SelectedItem.Text.Equals("Concatenate"))  
    {  
        result.Text = "Concatenate String : " + (str1 + str2);  
    }  
    else if (DropDownList1.SelectedItem.Text.Equals("UpperCase"))  
    {  
        result.Text = "<br>" + "Upper case of String :" + "<br>" + (str1.ToUpper() + " " + str2.ToUpper());  
    }  
    else if (DropDownList1.SelectedItem.Text.Equals("LowerCase"))  
    {  
        result.Text = "<br>" + "Lower case of String :" + "<br>" + str1.ToLower() + " " + str2.ToLower();  
    }  
    else if (DropDownList1.SelectedItem.Text.Equals("Length"))  
    {  
        result.Text = "<br>" + "Length of first string " + str1 + ":<br>" + str1.Length;  
    }  
    else if (DropDownList1.SelectedItem.Text.Equals("IsEmpty"))  
    {  
        if (String.IsNullOrEmpty(str1) && String.IsNullOrEmpty(str2))  
        {  
            result.Text = "<br>" + "Both the textbox is empty";  
        }  
        else if (String.IsNullOrEmpty(str1))  
        {  
            result.Text = "TextBox 1 is Empty";  
        }  
        else if (String.IsNullOrEmpty(str2))
```

```

{
result.Text = "TextBox 2 is Empty";
}
else
{
result.Text = "None of the TextBox is Empty";
} }
else
{
String reverse1 = new string(str1.Reverse().ToArray());
String reverse2 = new string(str2.Reverse().ToArray());
result.Text = "Reverse of 1st string :" + reverse1;
} } }

```

Output:

The image contains two side-by-side screenshots of a web browser window. Both screenshots show the same page layout with two text input fields labeled 'Enter First String' and 'Enter Second String', both containing the text 'Suraj' and 'Vikas' respectively. Below these fields are two dropdown menus: 'UpperCase' and 'IsEmpty'. A 'Submit' button is located below each dropdown. In the left screenshot, the 'UpperCase' dropdown is selected, and the output below the form shows 'Upper case of String : SURAJ VIKAS'. In the right screenshot, the 'IsEmpty' dropdown is selected, and the output below the form shows 'None of the TextBox is Empty'.

c) Create an application to demonstrate following operations

- i. Generate Fibonacci series. ii. Test for prime numbers.
- iii. Test for vowels. iv. Use of foreach loop with arrays
- v. Reverse a number and find sum of digits of a number.

Default.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="pract1c" %>
<!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 id="Head1" runat="server">

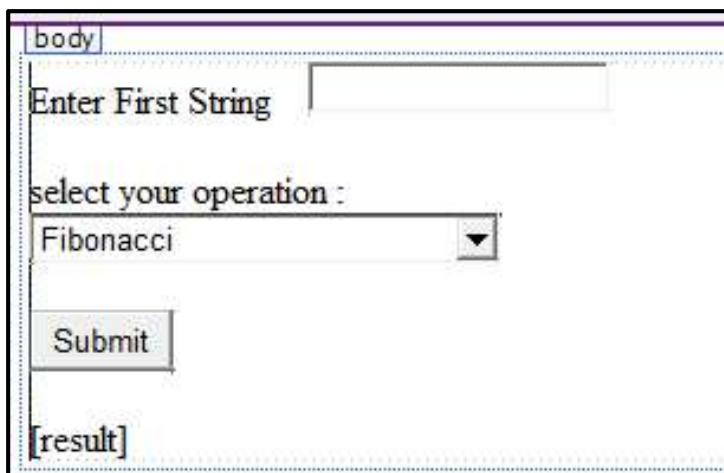
```

```

<title></title>
</head><body>
<form id="form1" runat="server">
<div>
<asp:Label ID="label1" runat="server">Enter First String</asp:Label>
 &nbsp;&nbsp;&nbsp;
<asp:TextBox ID="textBox1" runat="server"></asp:TextBox><br />
<br />
select your operation :
<br />
<asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="true"
>
<asp:ListItem >Fibonacci</asp:ListItem>
<asp:ListItem>prime</asp:ListItem>
<asp:ListItem>vowels</asp:ListItem>
<asp:ListItem> foreach loop</asp:ListItem>
<asp:ListItem>Reverse and Find sum of Digit</asp:ListItem>
</asp:DropDownList>
<br /><br />
<asp:Button ID="Submit" runat="server" Text="Submit" onclick="Submit_Click"
/>
<br /><br />
<asp:Label ID="result" runat="server"> </asp:Label>
</div>
</form></body>
</html>

```

Design:



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 pract1c : System.Web.UI.Page
{
protected void Page_Load(object sender, EventArgs e)
{
}
protected void Submit_Click(object sender, EventArgs e)
{
if (DropDownList1.SelectedItem.Text.Equals("Fibonacci"))
{
int usrInputNumber = Convert.ToInt32(textBox1.Text.ToString());
int firstNo = 0;
int secondNo = 1;
int sum = 0;
Response.Write("fibonacci series : " + firstNo + ", " + secondNo);
int i = 2;
while (i < usrInputNumber)
{
sum = firstNo + secondNo;
Response.Write(", " + sum);
firstNo = secondNo;
secondNo = sum;
i++;
}
}
else if (DropDownList1.SelectedItem.Text.Equals("prime"))
{
int num1 = Convert.ToInt32(textBox1.Text.ToString());
int i;
for (i = 2; i < num1 - 1; i++)
{
if (num1 % i == 0)
break;
}
```

```

if (i < num1 - 1)
{
result.Text = "IS NOT A PRIME NUMBER";
}
else
{
result.Text = "A PRIME NUMBER";
}}
else if (DropDownList1.SelectedItem.Text.Equals("vowels"))
{
string str = textBox1.Text.ToString().ToLower();
int c = 0;
for (int i = 0; i < str.Length; i++)
{
if ((str.Substring(i, 1)) == "a" || (str.Substring(i, 1)) == "e" || (str.Substring(i, 1)) ==
"i" || (str.Substring(i, 1)) == "o" || (str.Substring(i, 1)) == "u")
{
c++;
} }
result.Text = ("Total number of vowels in " + str + " is " + c);
}
else if (DropDownList1.SelectedItem.Text.Equals("Reverse and Find sum of
Digit"))
{
int num1 = Convert.ToInt32(textBox1.Text.ToString());
int reverse = 0;
int sum = 0;
while (num1 != 0)
{
int remainder = num1 % 10;
reverse = reverse * 10 + remainder;
sum = remainder + sum;
num1 = num1 / 10;
}
result.Text = "<br>" + "Reverse of entered number is " + reverse + "<br>" + "Sum
of digits is" + sum;
}
else{
String s = textBox1.Text.ToString();
foreach (char c in s)

```

```
{  
Response.Write("<br>" + c);  
} } } }  
Output:
```

fibonacci series : 0, 1, 1, 2, 3

Enter First String 5

select your operation :
Fibonacci

Submit

http://localhost:1644/Default.aspx

Enter First String Suraj

select your operation :
vowels

Submit

Total number of vowels in suraj is 2

Practical No:02

Working with Object Oriented C# and ASP .NET

a) Create simple application to perform following operations

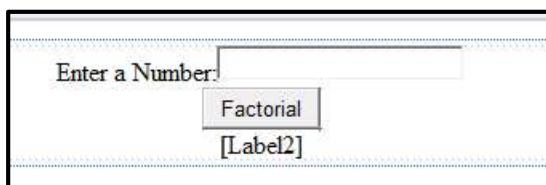
- i. Finding factorial Value ii. Money Conversion
- iii. Quadratic Equation iv. Temperature Conversion

i. Finding factorial Value

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 id="Head1" runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div align="center">
<asp:Label ID="Label1" runat="server" Text="Enter a Number:"></asp:Label>
<asp:TextBox ID="TextBox1" runat="server" Width="147px"></asp:TextBox>
<br />
<asp:Button ID="Button1" runat="server" onclick="Button1_Click"
Text="Factorial" /><br />
<asp:Label ID="Label2" runat="server"></asp:Label>
</div></form>
</body>
</html>
```

Design



Default.aspx.cs

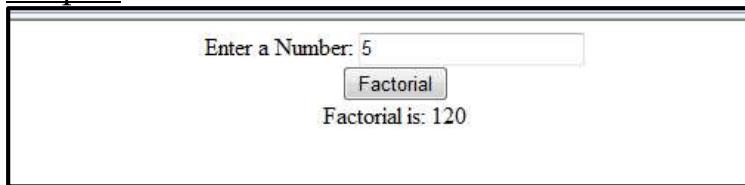
```
using System;
using System.Collections.Generic;
```

```

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)
{
int n = Int32.Parse(textBox1.Text);
int num, i, f = 1;
num = n;
for (i = 1; i <= n; i++)
{
f = f * i;
}
Label2.Text = "Factorial is: " + f.ToString();
}
}

```

Output:



ii. Money Conversion

a2.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="a2.aspx.cs"
Inherits="a2" %>
<!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 id="Head1" runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div align="center">

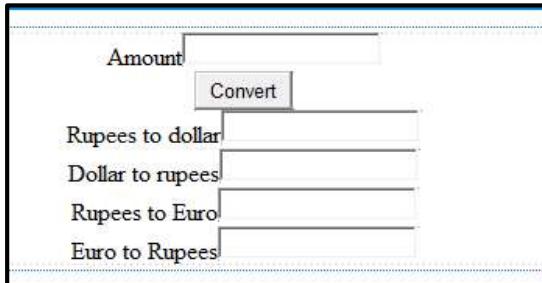
```

```

<asp:Label ID="Label1" runat="server" Text="Amount"></asp:Label>
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
<asp:Button ID="Button1" runat="server" onclick="Button1_Click"
Text="Convert" /><br />
<asp:Label ID="Label2" runat="server" Text="Rupees to dollar"></asp:Label>
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
<br />
<asp:Label ID="Label3" runat="server" Text="Dollar to rupees"></asp:Label>
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
<br />
<asp:Label ID="Label4" runat="server" Text="Rupees to Euro"></asp:Label>
<asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
<br />
<asp:Label ID="Label5" runat="server" Text="Euro to Rupees"></asp:Label>
<asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
</div></form>
</body>
</html>

```

Design:



a2.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 a2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

```

```
}

public class conv
{
    public double d, r, e, a;
    public conv(double amount)
    {
        a = amount;
    }
    public void rtd()
    {
        d = a / 69;
    }
    public void dtr()
    {
        r = a * 69;
    }
    public void rte()
    {
        e = a / 82.36;
    }
    public void etr()
    {
        r = a * 82.36;
    }
}
protected void Button1_Click(object sender, EventArgs e)
{
    double a = Double.Parse(textBox1.Text);
    conv obj = new conv(a);
    obj.rtd();
    textBox2.Text = Convert.ToString(obj.d);
    obj.dtr();
    textBox3.Text = Convert.ToString(obj.r);
    obj.rte();
    textBox4.Text = Convert.ToString(obj.e);
    obj.etr();
    textBox5.Text = Convert.ToString(obj.r);
}
}

Output:
```

The screenshot shows a Windows application window titled "Currency Converter". It contains a form with several input fields and a button:

- An input field labeled "Amount" with the value "69".
- A button labeled "Convert".
- Four pairs of input fields for currency conversion:
 - "Rupees to dollar": Input "1", Output "4761"
 - "Dollar to rupees": Input "4761", Output "1"
 - "Rupees to Euro": Input "0.83778533268577", Output "69"
 - "Euro to Rupees": Input "69", Output "5682.84"

iii.Quadratic Equation.

a3.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="a3.aspx.cs"
Inherits="a3" %>

<!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 align="center">

<asp:Label ID="Label1" runat="server" Text="Enter value of a:"></asp:Label>
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
<asp:Label ID="Label2" runat="server" Text="Enter value of b:"></asp:Label>
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br />
<asp:Label ID="Label3" runat="server" Text="Enter value of c:"></asp:Label>
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br />
```

```

<asp:Button ID="Button1" runat="server" Height="45px"
onclick="Button1_Click" Text="Button" Width="79px" />

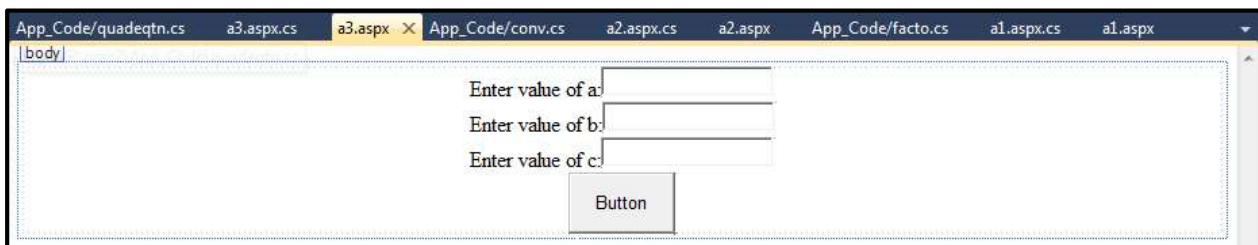
</div></form>

</body>

</html>

```

Design-



a3.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 a3 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    public class quadeqtn
    {

```

```
public double d, x1, x2;  
public string msg;  
public quadeqtn(int a,int b,int c)  
{  
    d = b * b - 4 * a * c;  
    if (d == 0)  
    {  
        x1 = -b / (2.0 * a);  
        x2 = x1;  
        msg = "Both the roots are equal<br>1st Root is:" + x1 + "<br>2nd Root is:" + x2 +  
        "<br>";  
    }  
    else if (d > 0) {  
        x1 = (-b + Math.Sqrt(d)) / (2 * a);  
        x2 = (-b - Math.Sqrt(d)) / (2 * a);  
        msg = "Both the roots are real and different<br>1st Root is:" + x1 + "<br>2nd  
        Root is:" + x2 + "<br>";  
    } else  
    {  
        msg = "Roots are imaginary, No solution.";  
    } } }  
protected void Button1_Click(object sender, EventArgs e)  
{
```

```

int a, b, c;

a = Int32.Parse(TextBox1.Text);

b = Int32.Parse(TextBox2.Text);

c = Int32.Parse(TextBox3.Text);

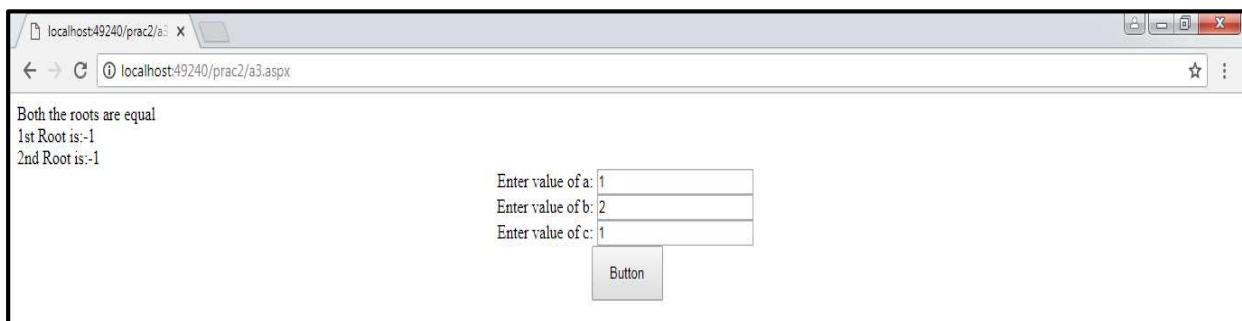
quadeqtn qe = new quadeqtn(a,b,c);

Response.Write(qe.msg);

}
}

```

Output-



iv.Temperature Conversion.

a4.aspx-

```

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="a4.aspx.cs"
Inherits="a4" %>

<!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 align="center">

<asp:Label ID="Label1" runat="server" Text="Celcius:></asp:Label>

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

<asp:Button ID="Button1" runat="server" onclick="Button1_Click"
Text="Celcius to Fahrenheit" /><br />

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

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

<br /><br />

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

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

<asp:Button ID="Button2" runat="server" onclick="Button2_Click"
Text="Fahrenheit to Celcius" /><br />

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

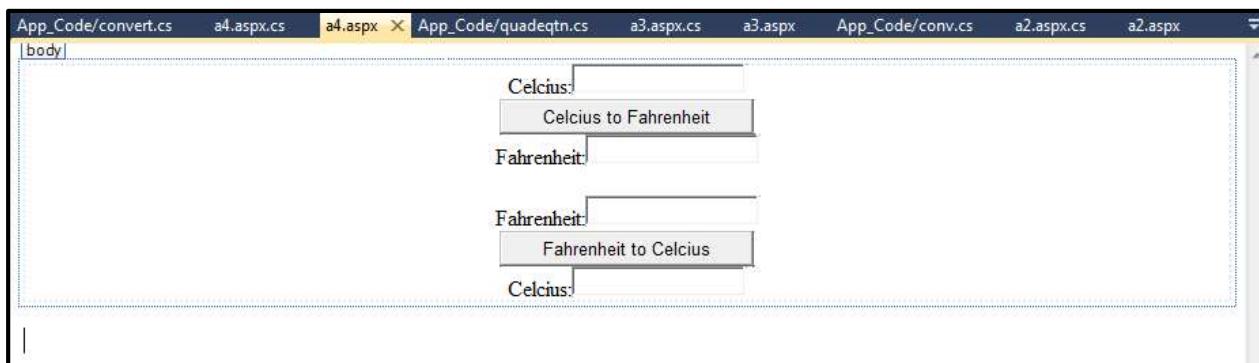
<asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>

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

</html>

```

Design-



a4.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 a4 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        public class convert
        {
            public double temp, f, c;
            public convert(double t)
            {
                temp=t;
            }
            public void ctf()
            {
                f = ((temp * 9 / 5)) + 32;
            }
            public void ftc() {
```

```

c = ((temp - 32) * 5) / 9;

}

protected void Button1_Click(object sender, EventArgs e)

{

double c = Double.Parse(textBox1.Text);

convert obj = new convert(c);

obj.ctf();

textBox2.Text = obj.f.ToString();

}

protected void Button2_Click(object sender, EventArgs e)

{

double c = Double.Parse(textBox3.Text);

convert obj = new convert(c);

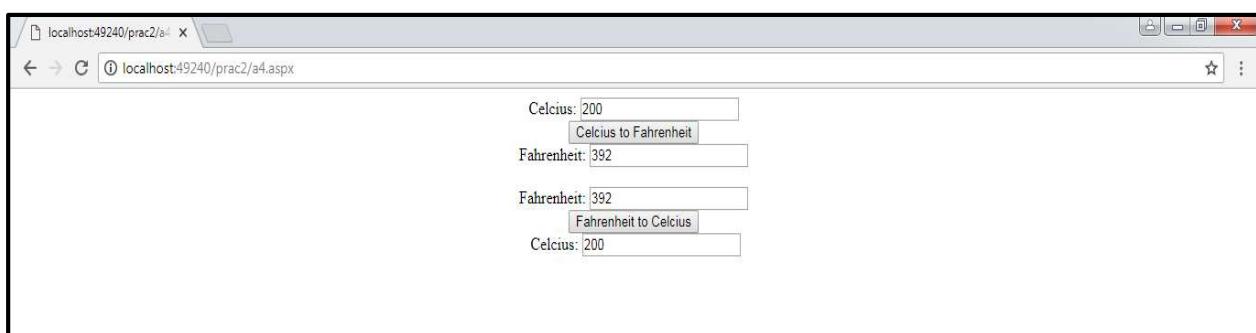
obj.ftc();

textBox4.Text = obj.c.ToString();

}

```

Output-



Practical No:03

Working with Web Forms and Controls

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

Default.aspx

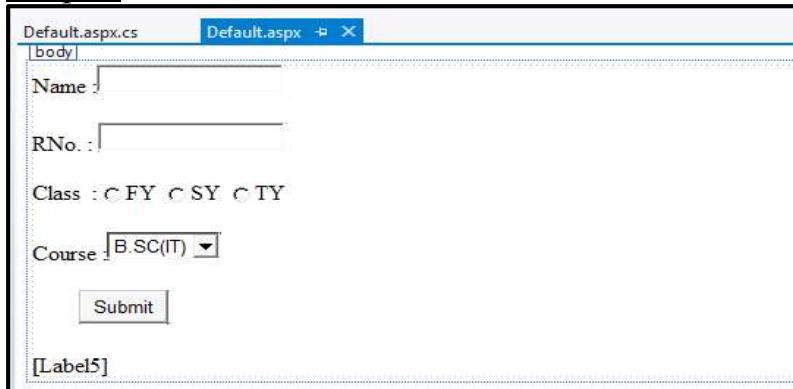
```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title></head>
<body>
<form id="form1" runat="server"><div>
<asp:Label ID="Label1" runat="server" Text="Name :"></asp:Label>
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
<br /><br />
<asp:Label ID="Label2" runat="server" Text="RNo."></asp:Label>
<br />
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
<br /><br />
<asp:Label ID="Label3" runat="server" Text="Class"></asp:Label>
<br />:<asp:RadioButton ID="RadioButton1" runat="server" Text="FY" />
<br /><asp:RadioButton ID="RadioButton2" runat="server" Text="SY" />
<br /><asp:RadioButton ID="RadioButton3" runat="server" Text="TY" />
<br /><br />
<asp:Label ID="Label4" runat="server" Text="Course :"></asp:Label>
<asp:DropDownList ID="DropDownList1" runat="server"
onselectedindexchanged="DropDownList1_SelectedIndexChanged"
AutoPostBack="true">
<asp:ListItem>B.SC(IT)</asp:ListItem>
<asp:ListItem>M.SC(IT)</asp:ListItem>
<asp:ListItem>MCA</asp:ListItem>
</asp:DropDownList>
<br /><br />
<br />&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<asp:Button ID="Button1" runat="server" Text="Submit"
onclick="Button1_Click"/>
```

```

<br />
<asp:Label ID="Label5" runat="server"></asp:Label>
</div></form></body>
</html>

```

Output:



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 DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
    {
        Label5.Text = "You have been enrolled " + DropDownList1.SelectedItem;
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        string s;
        if (RadioButton1.Checked == true)
        {
            s = RadioButton1.Text;
        }
    }
}

```

```

else if (RadioButton2.Checked == true)
{
    s = RadioButton2.Text;
}
else
{
    s = RadioButton3.Text;
}
Label5.Text = "You have been enrolled in " + s + " " +
DropDownList1.SelectedItem;
} }
Output:

```

The screenshot shows a web page titled 'http://localhost:1167/Default.aspx'. The form contains the following fields:

- Name : Suraj
- RNo. : 27
- Class : FY SY TY
- Course : B.SC(IT)
- Submit button

Below the form, a message is displayed: "You have been enrolled in TY B.SC(IT)".

b) Demonstrate the use of Calendar control to perform following operations.

- i) Display messages in a calendar control ii) Display vacation in a calendar control
- iii) Selected day in a calendar control using style iv) Difference between two calendar dates

CalndrCntrl.aspx

```

<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="CalndrCntrl.aspx.cs" Inherits="Calendar.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
<style type="text/css">
#form1 {
height: 407px;
}

```

```
</style></head>
<body>
<form id="form1" runat="server">
<div style="height: 585px">
<asp:Calendar ID="Calendar1" runat="server" BackColor="#FFFFCC"
BorderColor="#FFCC66" BorderWidth="1px" DayNameFormat="Shortest"
FirstDayOfWeek="Sunday" Font-Names="Verdana" Font-Size="8pt"
ForeColor="#663399" Height="400px" NextPrevFormat="ShortMonth"
OnDayRender="Calendar1_DayRender" ShowGridLines="True"
Width="1000px">
<DayHeaderStyle BackColor="#FFCC66" Font-Bold="True" Height="1px" />
<NextPrevStyle BorderStyle="Solid" BorderWidth="2px" Font-Size="9pt"
ForeColor="#FFFFCC" />
<OtherMonthDayStyle BackColor="#FFCC99" BorderStyle="Solid"
ForeColor="#CC9966" />
<SelectedDayStyle BackColor="Red" Font-Bold="True" />
<SelectorStyle BackColor="#FFCC66" />
<TitleStyle BackColor="#990000" Font-Bold="True" Font-Size="9pt"
ForeColor="#FFFFCC" />
<TodayDayStyle BackColor="#FFCC66" ForeColor="White" />
<WeekendDayStyle Height="50px" />
</asp:Calendar><br />
<asp:Label ID="Label1" runat="server"></asp:Label><br />
<asp:Label ID="Label2" runat="server"></asp:Label><br />
<asp:Label ID="Label3" runat="server"></asp:Label><br />
<asp:Label ID="Label4" runat="server"></asp:Label><br />
<asp:Label ID="Label5" runat="server"></asp:Label><br />
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
style="margin-top: 0px" Text="RESULT" />
    &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<asp:Button ID="Button2" runat="server" OnClick="Button2_Click"
Text="RESET" />
<br />
</div>
</form>
</body>
</html>
```

Design:



CalndrCntrl.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Calendar
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            Calendar1.Caption = "Vikas Pandey";
            Calendar1.FirstDayOfWeek = FirstDayOfWeek.Sunday;
            Calendar1.NextPrevFormat = NextPrevFormat.ShortMonth;
            Calendar1.TitleFormat = TitleFormat.Month;
            Label1.Text = "Your Selected Date:" + Calendar1.SelectedDate.ToString();
            Label2.Text = "Todays Date:" + Calendar1.TodaysDate.ToShortDateString();
            Label3.Text = "Ganpati Vacation Start: 09-13-2018";
            TimeSpan d = new DateTime(2018, 09, 13) - DateTime.Now;
            Label4.Text = "Days Remaining For Ganpati Vacation:" + d.Days.ToString();
            TimeSpan d1 = new DateTime(2018, 12, 31) - DateTime.Now;
            Label5.Text = "Days Remaining For New Year:" + d1.Days.ToString();
            if (Calendar1.SelectedDate.ToShortDateString() == "09-13-2018")
```

```

Label3.Text = "<b>Ganpati Festival Start</b>";
if (Calendar1.SelectedDate.ToShortDateString() == "09-23-2018")
Label3.Text = "<b>Ganpati Festival End</b>";
}
protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
{
if (e.Day.Date.Day == 15 && e.Day.Date.Month == 8)
{
e.Cell.BackColor = System.Drawing.Color.GreenYellow;
Label lbl1 = new Label();
lbl1.Text = "<br>Independence Day!<br>";
e.Cell.Controls.Add(lbl1);
Image g1 = new Image();
g1.ImageUrl = "id.jpg";
g1.Height = 40;
g1.Width = 75;
e.Cell.Controls.Add(g1);
}
if (e.Day.Date.Day == 5 && e.Day.Date.Month == 9)
{
e.Cell.BackColor = System.Drawing.Color.Yellow;
Label lbl1 = new Label();
lbl1.Text = "<br>Teachers Day!<br>";
e.Cell.Controls.Add(lbl1);
Image g1 = new Image();
g1.ImageUrl = "td.jpg";
g1.Height = 40;
g1.Width = 75;
e.Cell.Controls.Add(g1);
}
if (e.Day.Date.Day == 13 && e.Day.Date.Month == 9)
{
Calendar1.SelectedDate = new DateTime(2018, 09, 12);
Calendar1.SelectedDates.SelectRange(Calendar1.SelectedDate,
Calendar1.SelectedDate.AddDays(10));
Label lbl1 = new Label();
lbl1.Text = "<br>Ganpati!<br>";
e.Cell.Controls.Add(lbl1);
Image g2 = new Image();
g2.ImageUrl = "gc.jpg";
}

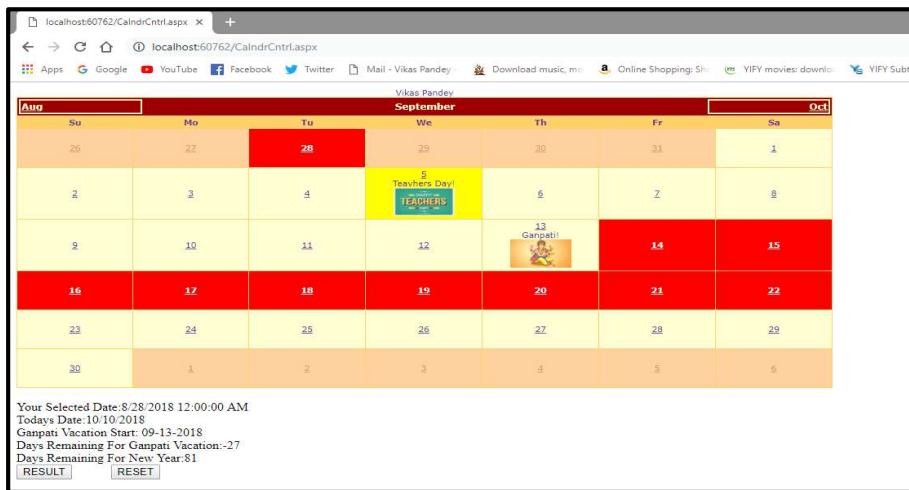
```

```

g2.Height = 40;
g2.Width = 75;
e.Cell.Controls.Add(g2);
} }
protected void Button2_Click(object sender, EventArgs e)
{
Label1.Text = "";
Label2.Text = "";
Label3.Text = "";
Label4.Text = "";
Label5.Text = "";
Calendar1.SelectedDates.Clear();
} } }

```

Output:



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

- a) Treeview control and datalist b) Treeview operations

prac3c.aspx

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div>
<asp:TreeView ID="TreeView1" runat="server" >
<Nodes>

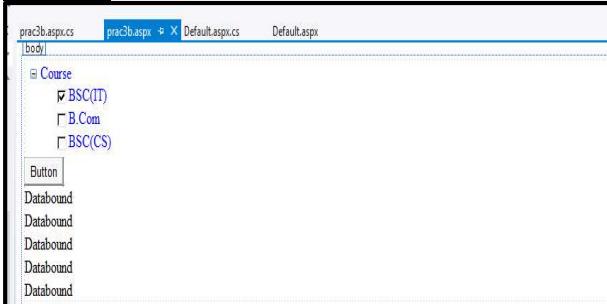
```

```

<asp:TreeNode Text="Course" Value="Course">
<asp:TreeNode Checked="true" ShowCheckBox="True" Text="BSC(IT)"
Value="BSC(IT)"></asp:TreeNode>
<asp:TreeNode ShowCheckBox="True" Text="B.Com"
Value="B.Com"></asp:TreeNode>
<asp:TreeNode ShowCheckBox="True" Text="BSC(CS)"
Value="BSC(CS)"></asp:TreeNode>
</asp:TreeNode></Nodes>
</asp:TreeView>
<asp:Button ID="Button1" runat="server" Text="Button"
onclick="Button1_Click" />
</div>
<asp:DataList ID="DataList1" runat="server">
<ItemTemplate>
<%# Eval("text") %>
</ItemTemplate>
</asp:DataList>
</form></body>
</html>

```

Design



prac3c.aspx.cs

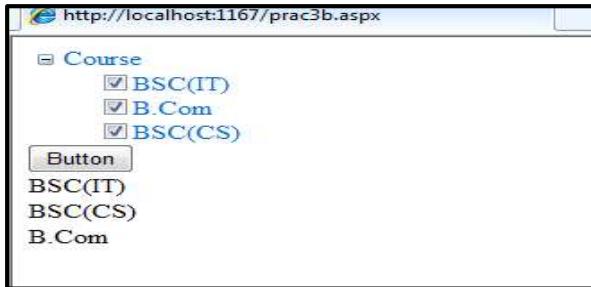
```

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="prac3c.aspx.cs"
Inherits="prac3b" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<script runat="server">
protected void Button1_Click(object sender, EventArgs e)
{
    TreeNodeCollection T;
    T = TreeView1.CheckedNodes;
    DataList1.DataSource = T;
    DataList1.DataBind();
}

```

```
        DataList1.Visible = true;  
    }  
    </script>
```

Output:



b) Treeview operations

prac3b2.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"  
CodeFile="prac3b2.aspx.cs" Inherits="prac3b2" %>  
<!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 id="Head1" runat="server">  
<title></title></head>  
<body>  
<form id="form1" runat="server"><div>  
<asp:TreeView ID="TreeView1" runat="server"  
onselectednodechanged="TreeView1_SelectedNodeChanged" ShowLines="True"  
ontreenodecollapsed="TreeView1_TreeNodeCollapsed">  
<Nodes>  
    <asp:TreeNode Text="I.T. Department" Value="I.T. Department">  
        <asp:TreeNode Text="Class Room" Value="Class Room">  
            <asp:TreeNode Text="601" Value="601"></asp:TreeNode>  
            <asp:TreeNode Text="602" Value="602"></asp:TreeNode>  
        </asp:TreeNode>  
        <asp:TreeNode Text="Lab" Value="Lab">  
            <asp:TreeNode Text="Lab-1" Value="Lab-1"></asp:TreeNode>  
            <asp:TreeNode Text="Lab-2" Value="Lab-2"></asp:TreeNode>  
        </asp:TreeNode>  
    </asp:TreeNode>  
</Nodes>  
</asp:TreeView>
```

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

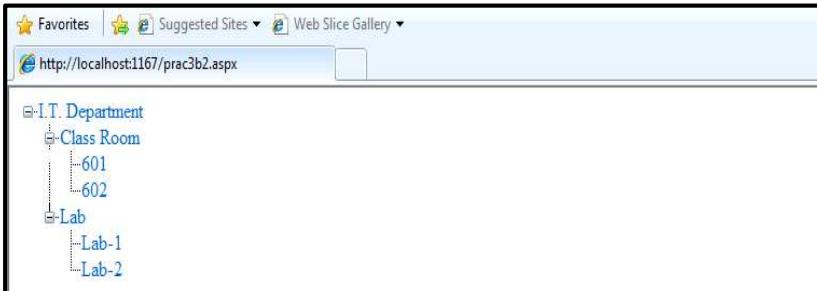
Design:



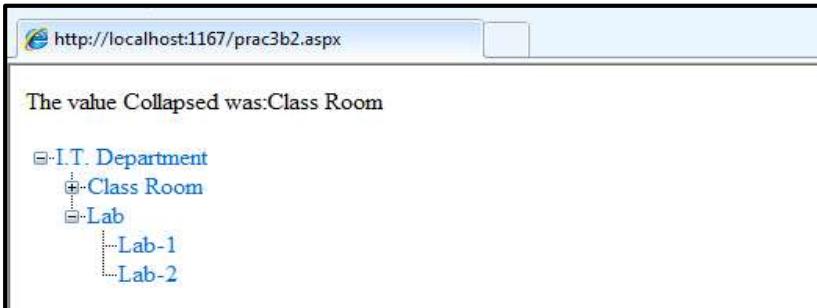
prac3b2.aspx.cs

```
using System;  
using System.Collections.Generic;  
using System.Linq;  
using System.Web;  
using System.Web.UI;  
using System.Web.UI.WebControls;  
public partial class prac3b2 : System.Web.UI.Page  
{  
    protected void Page_Load(object sender, EventArgs e)  
    {  
    }  
    protected void TreeView1_SelectedNodeChanged(object sender, EventArgs e)  
    {  
        Response.Write("You have selected the option:" + TreeView1.SelectedValue);  
    }  
    protected void TreeView1_TreeNodeCollapsed(object sender, TreeNodeEventArgs e)  
    {  
        Response.Write("The value Collapsed was:" + e.Node.Value);  
    }  
}
```

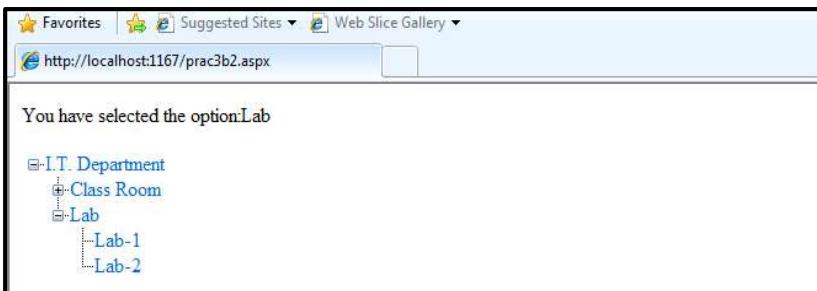
Output:



- Output after collapsing a value



- Output after selecting a value



Practical No:04

Working with Form Controls

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

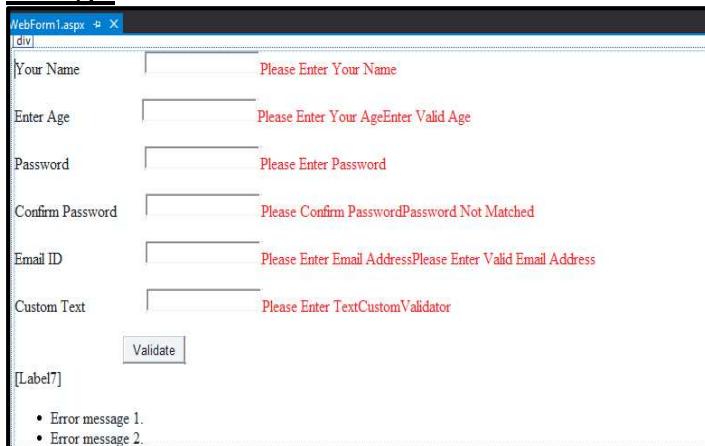
WebForm1.aspx


```

<asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="Validate" />
<br />
<asp:Label ID="Label7" runat="server"></asp:Label>
<br />
<asp:ValidationSummary ID="ValidationSummary1" runat="server" />
</div></form>
</body>
</html>

```

Design:



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 _4a
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            if(Page.IsValid)
            {

```

```

Label7.Text = "Thank You";
}
else
{
Label7.Text = "The text must be exactly 8 characters long!";
}
}

void ServerValidation(object source,ServerValidateEventArgs e)
{
if (e.Value.Length == 8)
e.IsValid = true;
else
e.IsValid = false;
}
}

```

Output:

Your Name

Enter Age Enter Valid Age

Password

Confirm Password Password Not Matched

Email ID Please Enter Valid Email Address

Custom Text

The text must be exactly 8 characters long!

- Enter Valid Age
- Password Not Matched
- Please Enter Valid Email Address

Your Name Please Enter Your Name

Enter Age Please Enter Your Age

Password Please Enter Password

Confirm Password Please Confirm Password

Email ID Please Enter Email Address

Custom Text Please Enter Text

- Please Enter Your Name
- Please Enter Your Age
- Please Enter Password
- Please Confirm Password
- Please Enter Email Address
- Please Enter Text

Your Name

Enter Age

Password

Confirm Password

Email ID

Custom Text

Thank You

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

WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="_4b.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:ScriptManager ID="ScriptManager1" runat="server">
</asp:ScriptManager><br />
<asp:Timer ID="Timer1" Interval="2000" runat="server">
</asp:Timer><br />
<asp:UpdatePanel ID="UpdatePanel1" runat="server">
</asp:UpdatePanel><br />
<asp:AdRotator ID="AdRotator1" runat="server"
AdvertisementFile("~/XMLFile1.xml" Height="200px" Width="200px" />
<br /></div></form></body></html>
```

Design:



XMLFile1.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements><Ad>
<ImageUrl>/v.png</ImageUrl>
</Ad><Ad>
<ImageUrl>/v1.png</ImageUrl>
</Ad><Ad>
<ImageUrl>/v2.jpg</ImageUrl>
</Ad><Ad>
<ImageUrl>/v3.jpg</ImageUrl>
</Ad><Ad>
<ImageUrl>/v4.jpg</ImageUrl>
</Ad><Ad>
<ImageUrl>/v5.jpg</ImageUrl>
</Ad><Ad>
<ImageUrl>/v6.jpg</ImageUrl></Ad>
</Advertisements>
```

Output:



c)Create Web Form to demonstrate use User Controls.

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><br />

<asp:Label ID="Label1" runat="server" Text="This is User
Control"></asp:Label><br /><br />

 &nbsp;&nbsp;

<asp:Label ID="Label2" runat="server" Text="Enter Your Name:></asp:Label>
&nbsp;&nbsp;&nbsp;

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
&nbsp;&nbsp;

<asp:Label ID="Label3" runat="server" Text="Enter Your City: "></asp:Label>
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

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

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

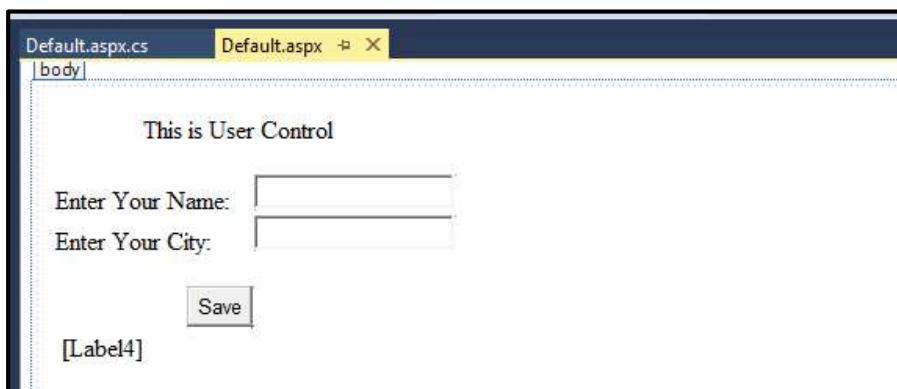
<asp:Label ID="Label4" runat="server"></asp:Label><br />

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

</html>

```

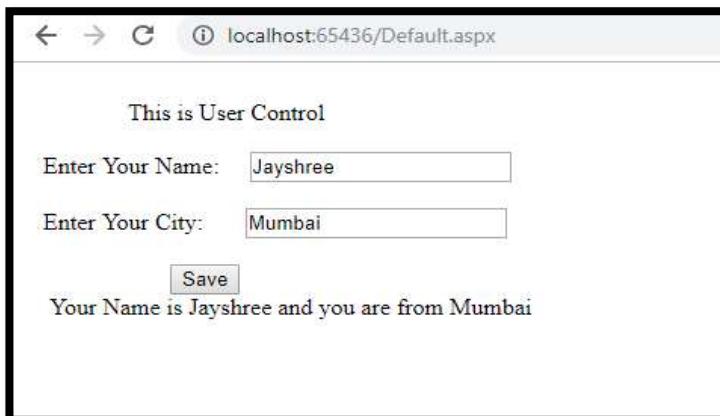
Design



Default.acpx.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)
        {
            Label4.Text = "Your Name is " + TextBox1.Text + " and you are from " +
            TextBox2.Text;
        }
    }
}
```

Output:



Practical No:05

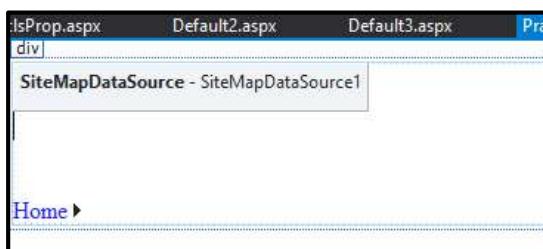
Working with Navigation, Beautification and Master page.

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

Pract5a.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="Pract5a.aspx.cs" Inherits="Practical5a.Pract5a" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div>
<asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" />
<br />
<asp:Menu ID="Menu1" runat="server" DataSourceID="SiteMapDataSource1">
</asp:Menu></div>
</form>
</body>
</html>
```

Design



Pract5a.aspx.cs

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

```

namespace Practical5a
{
    public partial class Pract5a : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
    }
}

```

Web.sitemap

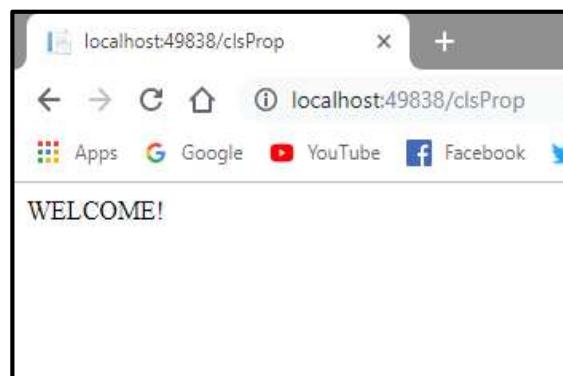
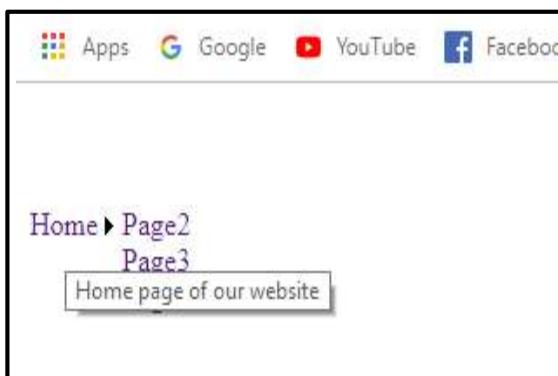
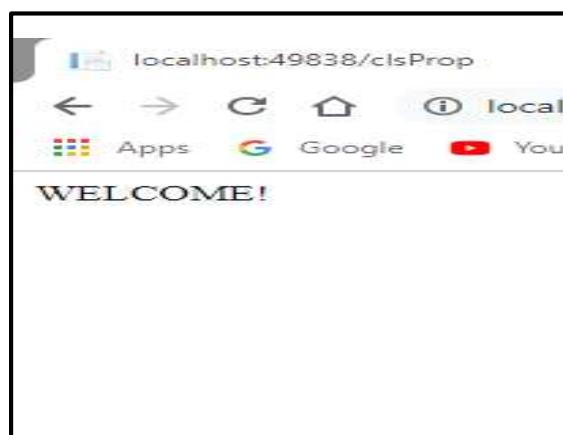
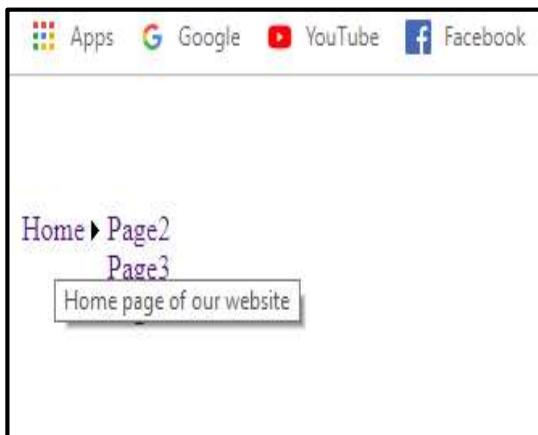
```

<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
<siteMapNode url="Pract5a.aspx" title="Home" description="Home page of our website">
<siteMapNode url="clsProp.aspx" title="Page2" description="Page2" />
<siteMapNode url="Default2.aspx" title="Page3" description="Page3" />
<siteMapNode url="Default3.aspx" title="Page4" description="Page4" />
</siteMapNode>
</siteMap>

```

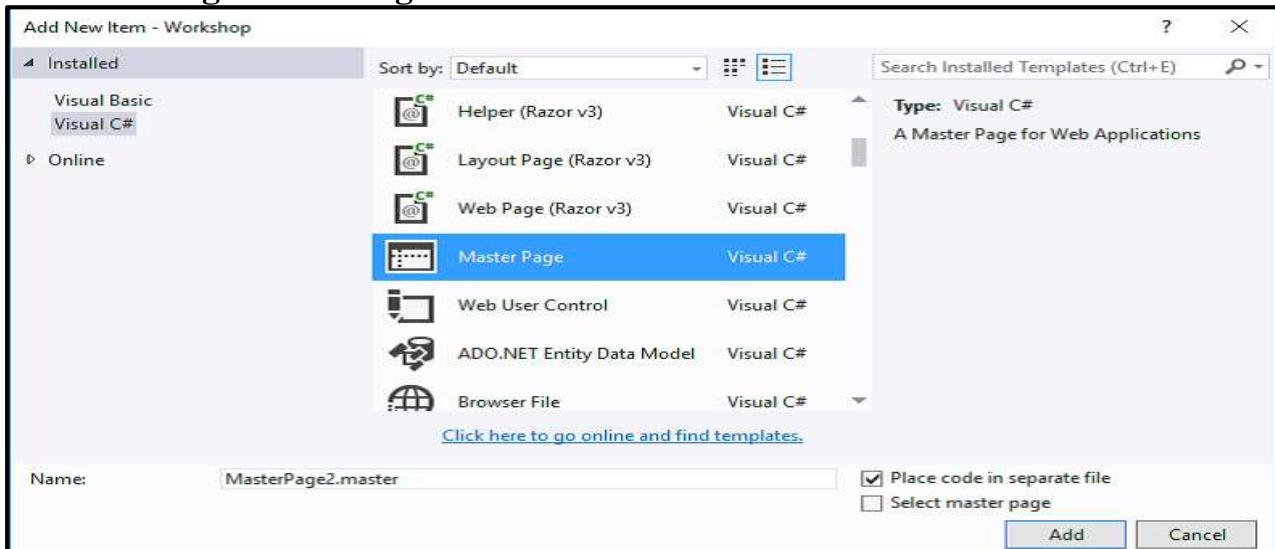
- Add 3 more .aspx files with “Welcome” message

Output:

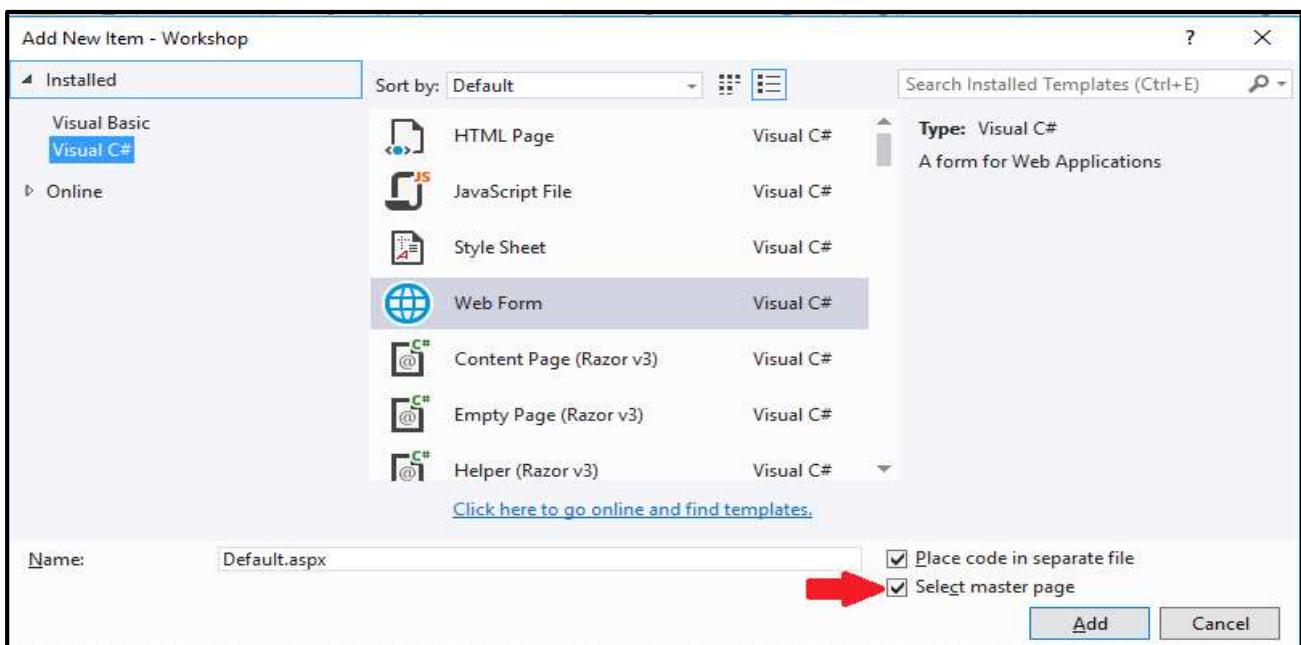


b). Create a web application to demonstrate use of Master Page with applying Styles and Themes for page beautification.

➤ Adding Master Page



Adding Web page For Master page



MasterPage.master

```
<%@ Master Language="C#" AutoEventWireup="true"  
CodeFile="MasterPage.master.cs" Inherits="MasterPage" %>  
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title>Master Page</title>
<link href="css/my.css" rel="stylesheet" />
<asp:ContentPlaceHolder ID="head" runat="server">
</asp:ContentPlaceHolder>
<style type="text/css">
.auto-style1 {
position: absolute;
top: 373px;
left: 1028px;
bottom: 303px;
}
.auto-style2 {
position: absolute;
top: 537px;
left: 1016px;
z-index: 1;
}
</style></head>
<body>
<!DOCTYPE html>
<form id="form1" runat="server">
<html><head>
<title>Master</title>
<link rel="stylesheet" type="text/css" href="StyleSheet.css">
</head>
<body><header id="header">
<h1>Demo Of Master Page</h1>
</header>
<nav id="nav">
<ul>
<li><a href="home.aspx">Insight</a></li>
<li><a href="#">Products</a></li>
<li><a href="#">Downloads</a></li>
<li><a href="#">Contact Us</a></li>
</ul></nav>
<aside id="side">
<h1>Info</h1>
<a href="#">
```

```
<a href="#"><p>Product Type 2</p></a>
<a href="#"><p>Product Type 3</a><asp:ScriptManager
ID="ScriptManager1" runat="server">
</asp:ScriptManager></a></p>
<asp:Button ID="Button2" runat="server" CssClass="auto-style1" style="z-index:
1" Text="Button" />
<asp:Button ID="Button1" runat="server" CssClass="auto-style2" Text="Button"
/>
</aside><div id="con">
<asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
</asp:ContentPlaceHolder>
</div>
<footer id="footer">
copyright @Sambare
</footer></body>
</html></form>
</body></html>
```

MasterDisplay.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master"
AutoEventWireup="true" CodeFile="MasterDisplay.aspx.cs"
Inherits="MasterDisplay" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
<h1>Home page</h1>
</asp:Content>
```

StyleSheet.css

```
#header{
color: blueviolet;
text-align: center;
font-size: 20px;
}
#nav{
background-color:darkseagreen;
padding: 5px;
}
ul{
list-style-type: none;
}
```

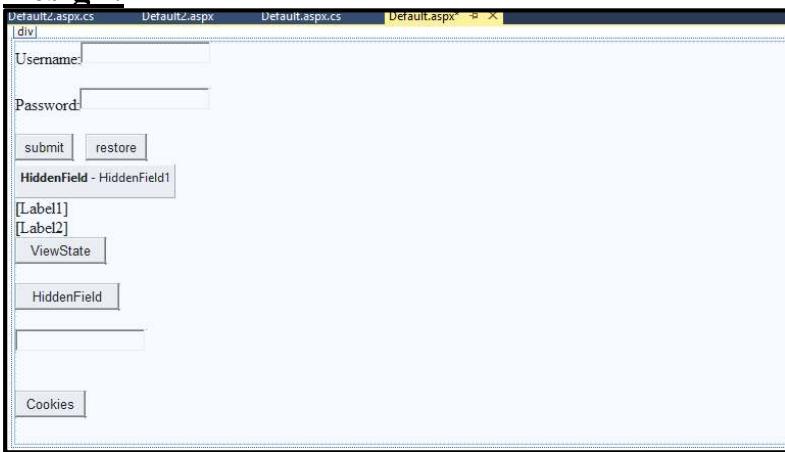
```
li a {
color:crimson ;
font-size: 30px;
column-width: 5%;
}li
{
display: inline;
padding-left: 2px;
column-width: 20px;
}
a{
text-decoration: none;
margin-left:20px
}
li a:hover{
background-color: aqua;
color:coral ;
padding:1%;
}
#side{
text-align: center;
float: right;
width: 15%;
padding-bottom: 79%;
background-color: #F1FAEE;
}
#article{
background-color: burlywood;
padding: 10px;
padding-bottom: 75%;
}
#footer{
background-color: #C7EFCF;
text-align:center;
padding-bottom: 5%;
font-size: 20px;
}
#con{
border:double;
border-color:burlywood; }
```

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

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 style="height: 393px">
Username:<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
<br /><br />
Password:<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
<br /><br />
<asp:Button ID="Button4" runat="server" Text="submit"
onclick="Button4_Click" />
 &nbsp;&nbsp;;
<asp:Button ID="Button5" runat="server" Text="restore"
onclick="Button5_Click" />
<asp:HiddenField ID="HiddenField1" runat="server" />
<asp:Label ID="Label1" runat="server"></asp:Label><br />
<asp:Label ID="Label2" runat="server" ></asp:Label><br />
<asp:Button ID="Button1" runat="server" Text="ViewState"
onclick="Button1_Click" /><br /><br />
<asp:Button ID="Button2" runat="server" Text="HiddenField"
onclick="Button2_Click" />
<br /><br />
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br /><br />
<asp:Button ID="Button3" runat="server" Text="Cookies"
onclick="Button3_Click" />
</div>
</form>
</body>
</html>
```

Design:



Deafult.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)
    {
        if (IsPostBack)
        {
            if (ViewState["count"] != null)
            {
                int viewstateval = Convert.ToInt32(ViewState["count"]) + 1;
                Label1.Text = "ViewState:" + viewstateval.ToString();
                ViewState["count"] = viewstateval.ToString();
            }
        }
        else
        {
            ViewState["count"] = "1";
        }
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label2.Text = ViewState["count"].ToString();
    }
}
```

```
protected void Button2_Click(object sender, EventArgs e)
{
    Page.EnableViewState = true;
    HiddenField1.Value = "welcome to our website:http://www.google.com" +
    "<br/>";
    Label1.Text = HiddenField1.Value;
    HiddenField1.Value = "0";
    int i = 0;
    i = (int.Parse(HiddenField1.Value)) + 1;
    Label2.Text = i.ToString();
    HiddenField1.Value = i.ToString();
}
protected void Button3_Click(object sender, EventArgs e)
{
    HttpCookie c1 = new HttpCookie("name");
    c1.Value = TextBox1.Text;
    Response.Cookies.Add(c1);
    Response.Redirect("Default2.aspx");
}
protected void Button4_Click(object sender, EventArgs e)
{
    ViewState["name"] = TextBox2.Text;
    ViewState["password"] = TextBox3.Text;
    TextBox2.Text = TextBox3.Text = string.Empty;
}
protected void Button5_Click(object sender, EventArgs e)
{
    if (ViewState["name"] != null)
    {
        TextBox2.Text = ViewState["name"].ToString();
    }
    if (ViewState["password"] != null)
    {
        TextBox3.Text = ViewState["password"].ToString();
    }
}
```

Default2.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 Default2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (Request.Cookies["name"] != null)
        {
            Response.Write("Welcome:" + Request.Cookies["name"].Value);
        }
    }
}
```

Output:

localhost:52758/Default.aspx

Username: jayshri

Password: jk123

submit restore ViewState:4
4
ViewState

HiddenField

jayshri

Cookies

localhost:52758/Default2.aspx

Welcome: jayshri

Practical No:06

Working with Database

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

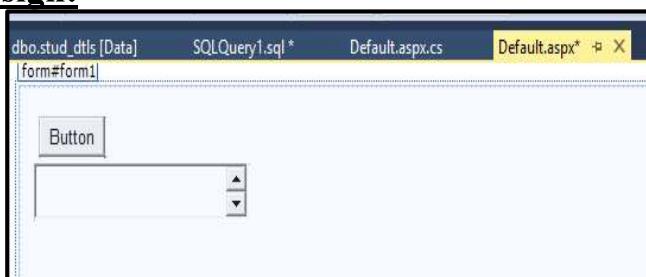
Default.aspx

```
<%@ 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>
<br />
 &nbsp;&nbsp;&nbsp;
<asp:Button ID="Button1" runat="server" Text="Button"
onclick="Button1_Click" />
<br />
 &nbsp;&nbsp;
<asp:TextBox ID="TextBox1" runat="server" Text="<%# str %>" 
TextMode="MultiLine"></asp:TextBox>
 &nbsp;<br />
<br /><br />
</div><br /><br />
</form>
</body></html>
```

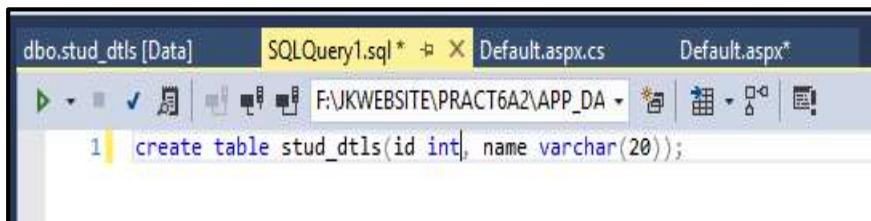
Design:



Deafult.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 String str;
SqlConnection cn = new SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=F:\jkwebsite\pract6a2\
\App_Data\Database.mdf;Integrated Security=True");
protected void Page_Load(object sender, EventArgs e)
{
}
protected void Button1_Click(object sender, EventArgs e)
{
SqlCommand cmd = new SqlCommand("select * from stud_dtls", cn);
cn.Open();
SqlDataReader dr = cmd.ExecuteReader();
while (dr.Read())
{
str += dr["id"] + " " + dr["name"] + "\n";
}
this.DataBind();
} }
```

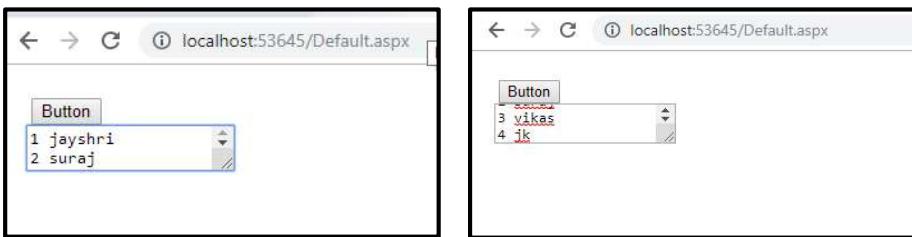
➤ Query to create database



The screenshot shows a Microsoft SQL Server Management Studio (SSMS) interface. The title bar includes tabs for 'dbo.stud_dtls [Data]', 'SQLQuery1.sql*', 'Default.aspx.cs', and 'Default.aspx*'. The main window displays the following SQL command:

```
1 | create table stud_dtls(id int, name varchar(20));
```

Output:

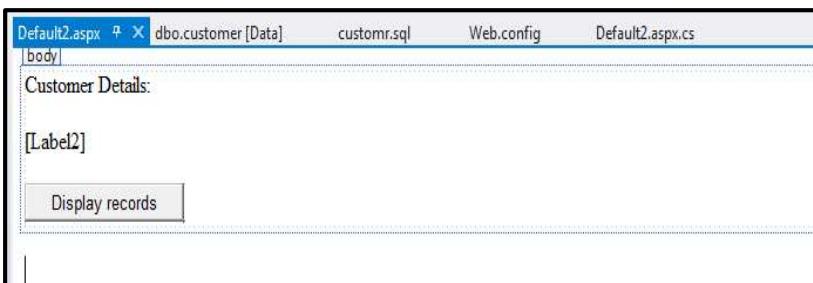


b) Create a web application to display records by using database.

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" Debug="true"
CodeFile="Default2.aspx.cs" Inherits="Default2" %>
<!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="Customer Details:"></asp:Label>
<br /><br />
<asp:Label ID="Label2" runat="server"></asp:Label>
<br /><br />
<asp:Button ID="Button1" runat="server" Text="Display records"
OnClick="Button1_Click" />
 &nbsp;&nbsp;;
</div>
</form>
</body>
</html>
```

Design



Web .config

```
<configuration>
<system.web>
<compilation debug="true" strict="false" explicit="true" targetFramework="4.5">
</>
<httpRuntime targetFramework="4.5" />
</system.web>
<connectionStrings>
<add name="connStr" connectionString="Data
Source=(LocalDB)\v11.0;AttachDbFilename=C:\Users\Deepak\Documents\Visual
Studio 2012\WebSites\Prac 6b\App_Data\Database2.mdf;Integrated
Security=True"/>
</connectionStrings>
</configuration>
```

Design.apsx.cs

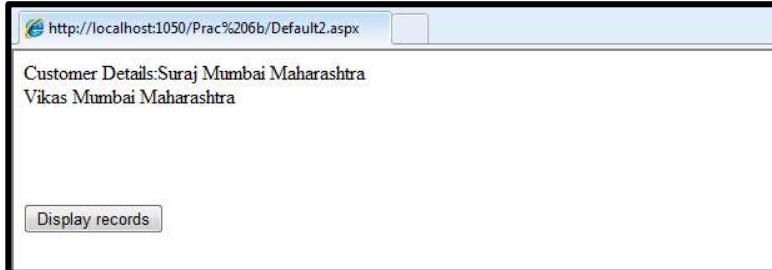
```
using System;
using System.Data;
using System.Collections.Generic;
using System.Configuration;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class Default2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        string connStr =
ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
        SqlConnection con = new SqlConnection(connStr);
        SqlCommand cmd = new SqlCommand("Select * from customer", con);
        con.Open();
        SqlDataReader reader = cmd.ExecuteReader();
        while (reader.Read())
```

```

{
Label1.Text += reader["c_name"].ToString() + " " + reader["c_city"].ToString()
+ " " + reader["c_state"].ToString() + "<br>";
}
reader.Close();
con.Close();
} }

Output:

```



c) Demonstrate the use of Datalist link control.

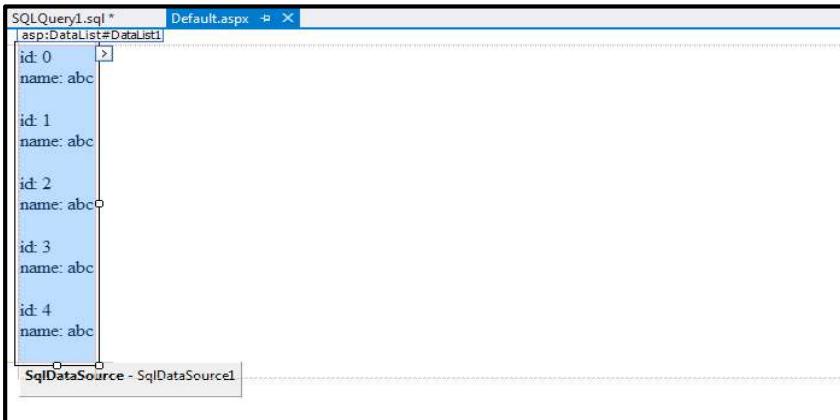
Default.aspx

```

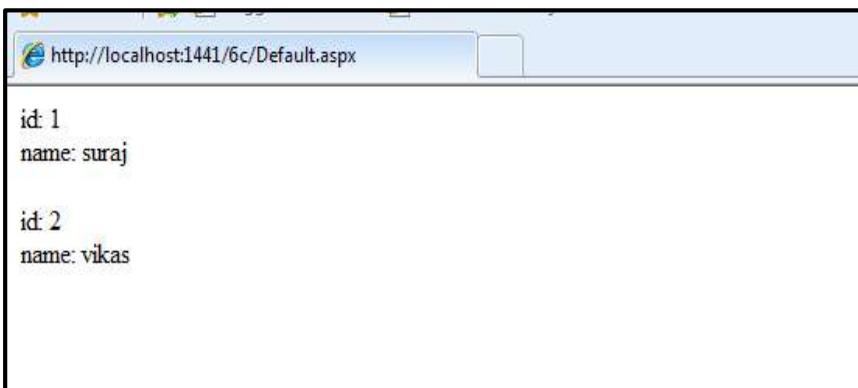
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div style="height: 310px">
<asp:DataList ID="DataList1" runat="server" DataSourceID="SqlDataSource1">
<ItemTemplate>
id:<asp:Label ID="idLabel" runat="server" Text='<%# Eval("id") %>' /><br />
name:<asp:Label ID="nameLabel" runat="server" Text='<%# Eval("name") %>' /><br /><br />
</ItemTemplate>
</asp:DataList>
<asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>" 
SelectCommand="SELECT * FROM [student]"></asp:SqlDataSource>
</div></form></body>
</html>

```

Design



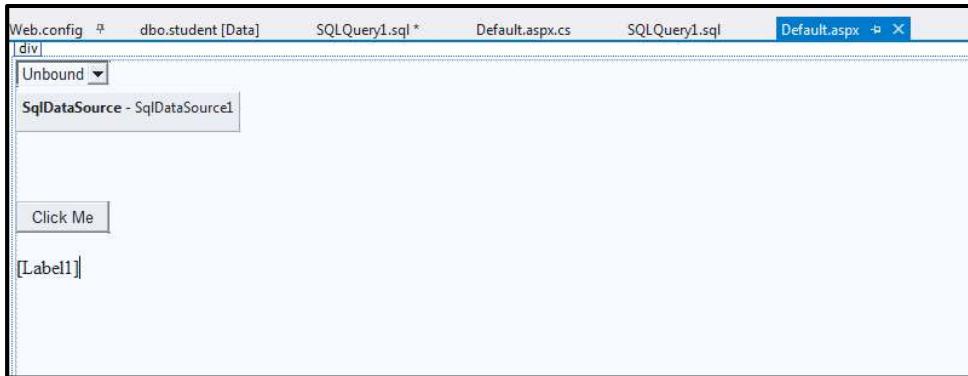
Output:



Practical No:07

a) Create a web application to display Databinding using dropdownlist control.

Design



Web.config

```
<configuration>
<connectionStrings>
<add name="DatabaseConnectionString" connectionString="Data
Source=(LocalDB)\v11.0;AttachDbFilename="C:\Users\Deepak\Documents\
Visual Studio 2012\WebSites\6c\App_Data\Database.mdf";Integrated
Security=True;Connect Timeout=30"
providerName="System.Data.SqlClient" />
<add name="ConnectionString" connectionString="Data
Source=(LocalDB)\v11.0;AttachDbFilename=|DataDirectory|\Database2.mdf;Integ
rated Security=True"
providerName="System.Data.SqlClient" />
</connectionStrings>
<system.web>
<compilation debug="false" strict="false" explicit="true" targetFramework="4.5"
/>
<httpRuntime targetFramework="4.5" />
</system.web>
</configuration>
```

Default.aspx.cs

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

```

using System.Configuration;
using System.Data.SqlClient;
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)
{
if (IsPostBack == false)
{
string DatabaseConnectionString =
ConfigurationManager.ConnectionStrings["DatabaseConnectionString"].ConnectionString;
SqlConnection con = new SqlConnection(DatabaseConnectionString);
SqlCommand cmd = new SqlCommand("select name from student", con);
con.Open();
SqlDataReader reader = cmd.ExecuteReader();
DropDownList1.DataSource = reader;
DropDownList1.DataTextField = "name";
DropDownList1.DataBind();
reader.Close();
con.Close();
} }
protected void Button1_Click(object sender, EventArgs e)
{
Label1.Text = "You have selected " + DropDownList1.SelectedValue;
}}
Output:

```



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

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>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<br /><br />
<asp:Label ID="Label1" runat="server" Text="Enter Author's ID:"></asp:Label>
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
<br /><br />
<asp:Label ID="Label2" runat="server" Text="Author's Phone
Number"></asp:Label>&nbsp;
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
<br /><br />
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="Button" /><br /><br />
<asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>">
DeleteCommand="DELETE FROM [authors] WHERE [author_id] = @author_id"
```

```

InsertCommand="INSERT INTO [authors] ([author_id], [phoneno]) VALUES
(@author_id, @phoneno)" SelectCommand="SELECT * FROM [authors]"
UpdateCommand="UPDATE [authors] SET [phoneno] = @phoneno WHERE
[author_id] = @author_id">

<DeleteParameters>

<asp:Parameter Name="author_id" Type="Int32" />

</DeleteParameters>

<InsertParameters>

<asp:Parameter Name="author_id" Type="Int32" />

<asp:Parameter Name="phoneno" Type="Int32" />

</InsertParameters>

<UpdateParameters>

<asp:Parameter Name="phoneno" Type="Int32" />

<asp:Parameter Name="author_id" Type="Int32" />

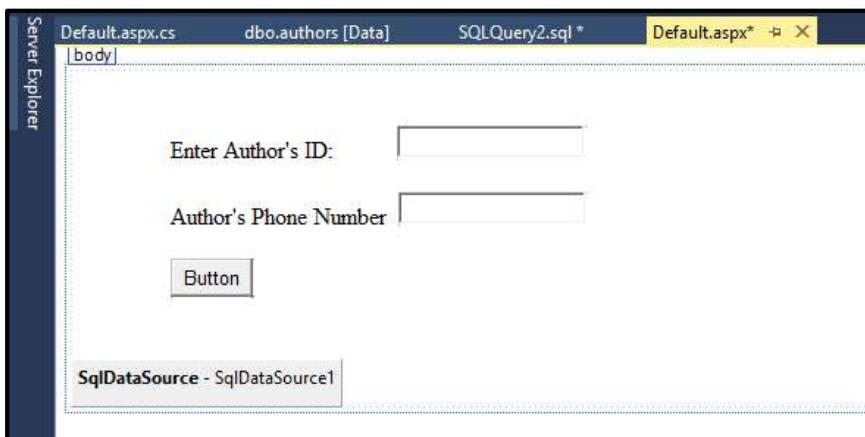
</UpdateParameters>

</asp:SqlDataSource></div>

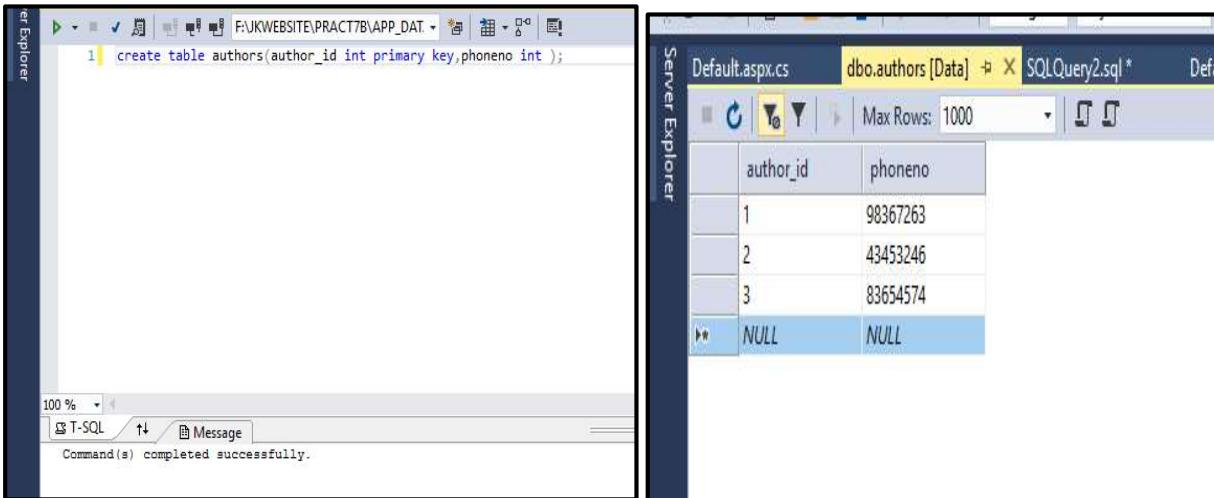
</form></body></html>

```

Design



Database:



Defult.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
{
    SqlConnection cn = new SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=F:\jkwebsite\pract7b\
App_Data\Database.mdf;Integrated Security=True");
    SqlDataReader dr;
```

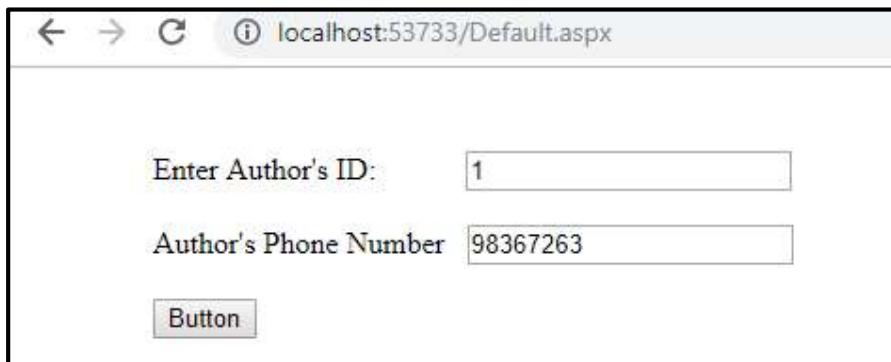
```

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

protected void Button1_Click(object sender, EventArgs e)
{
    SqlCommand cmd = new SqlCommand("select * from authors where author_id=" +
        TextBox1.Text + "", cn);
    cn.Open();
    dr = cmd.ExecuteReader();
    while (dr.Read())
    {
        TextBox2.Text = Convert.ToString(dr["phoneno"]);
    }
}

```

Output:



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

Default.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="7c.aspx.cs"
Inherits="_7c" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">

```

```

<head runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div style="height: 331px">
<asp:Label ID="Label1" runat="server" Text="Bank Address"></asp:Label>
 &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
<br />
<asp:Label ID="Label2" runat="server" Text="Bank City"></asp:Label>
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br />
<asp:Label ID="Label3" runat="server" Text="Bank Branch Name"></asp:Label>
 &nbsp;
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br />
<asp:Label ID="Label4" runat="server" Text="State"></asp:Label>
<asp:TextBox ID="TextBox4" runat="server"></asp:TextBox><br />
<asp:Label ID="Label5" runat="server" Text="ZIP Code"></asp:Label>
<asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
<br /><br />
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="Insert" />
 &nbsp;&nbsp;&nbsp;&nbsp;
<asp:Button ID="Button2" runat="server" Text="Delete" />
<br /><br />
<asp:Label ID="Label6" runat="server"></asp:Label>
</div>
</form>
</body>
</html>

```

Design:



Default.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Data;
using System.Web.UI.WebControls;
public partial class _7c : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        string connStr =
ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
        SqlConnection con = new SqlConnection(connStr);
        string InsertQuery = "insert into bank
values(@b_add,@b_city,@b_name,@b_state,@b_zip)";
        SqlCommand cmd = new SqlCommand(InsertQuery,con);
        cmd.Parameters.AddWithValue("@b_add", TextBox1.Text);
        cmd.Parameters.AddWithValue("@b_city", TextBox2.Text);
        cmd.Parameters.AddWithValue("@b_name", TextBox3.Text);
        cmd.Parameters.AddWithValue("@b_state", TextBox4.Text);
        cmd.Parameters.AddWithValue("@b_zip", TextBox5.Text);
        con.Open();
        cmd.ExecuteNonQuery();
        Label6.Text = "Record Inserted Successfully";
        TextBox1.Text = "";
        TextBox2.Text = "";
        TextBox3.Text = "";
        TextBox4.Text = "";
        TextBox5.Text = "";
        con.Close();
    }
    protected void Button2_Click(object sender, EventArgs e)
```

```

{
string connStr =
ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
SqlConnection con = new SqlConnection(connStr);
string deleteQuery = "delete from bank where b_add=@b_add";
SqlCommand cmd = new SqlCommand(deleteQuery, con);
cmd.Parameters.AddWithValue("@b_add", TextBox1.Text);
con.Open();
cmd.ExecuteNonQuery();
Label6.Text = "Record Deleted Successfully";
TextBox1.Text = "";
TextBox2.Text = "";
TextBox3.Text = "";
TextBox4.Text = "";
TextBox5.Text = "";
con.Close();
}}

```

Output:

The screenshot shows a form with five input fields: Bank Address (vikhroli), Bank City (Mumbai), Bank Branch Name (VIK), State (Maharashtra), and ZIP Code (400083). Below the form are two buttons: Insert and Delete. A message at the bottom says "Record Inserted Successfully".

Bank Address	vikhroli
Bank City	Mumbai
Bank Branch Name	VIK
State	Maharashtra
ZIP Code	400083

Insert Delete

Record Inserted Successfully

The screenshot shows a form with five input fields: Bank Address (Powai), Bank City, Bank Branch Name, State, and ZIP Code. Below the form are two buttons: Insert and Delete. A message at the bottom says "Record Deleted Successfully".

Bank Address	Powai
Bank City	
Bank Branch Name	
State	
ZIP Code	

Insert Delete

Record Deleted Successfully

Practical No:08

Working with data controls

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

Default.aspx

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

<!DOCTYPE html>

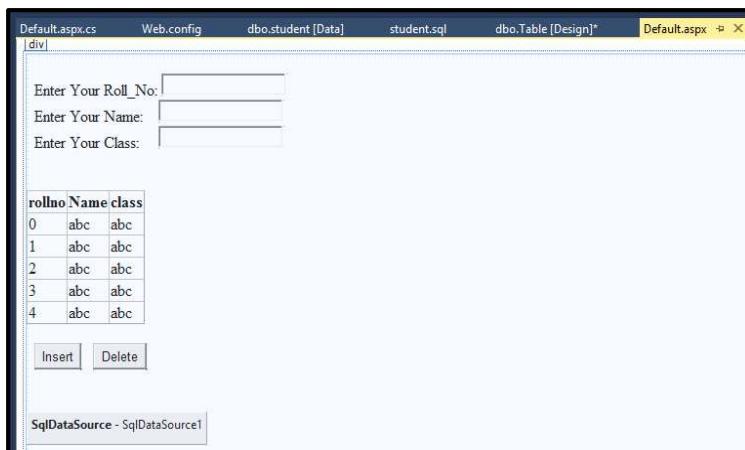
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head><body>
<form id="form1" runat="server">
<div><br />
 <br/>
<asp:Label ID="Label1" runat="server" Text="Enter Your
Roll_No:"></asp:Label>
 <br/><asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
<asp:Label ID="Label2" runat="server" Text="Enter Your Name:"></asp:Label>
 &nbsp;&nbsp;&nbsp;
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br />
<asp:Label ID="Label3" runat="server" Text="Enter Your Class:"></asp:Label>
 &nbsp;&nbsp;&nbsp;
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br /><br />
<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="rollno" DataSourceID="SqlDataSource1">
<Columns>
<asp:BoundField DataField="rollno" HeaderText="rollno" ReadOnly="True"
SortExpression="rollno" />
<asp:BoundField DataField="Name" HeaderText="Name"
SortExpression="Name" />
<asp:BoundField DataField="class" HeaderText="class" SortExpression="class"
/>
</Columns>
</asp:GridView><br />
 
```

```

<asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="Insert" />&nbsp;&nbsp;
<asp:Button ID="Button2" runat="server" OnClick="Button2_Click"
Text="Delete" /><br /><br /><br />
<asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>">
SelectCommand="SELECT * FROM [student]" DeleteCommand="DELETE
FROM [student] WHERE [rollno] = @rollno" InsertCommand="INSERT INTO
[student] ([rollno], [Name], [class]) VALUES (@rollno, @Name, @class)"
UpdateCommand="UPDATE [student] SET [Name] = @Name, [class] = @class
WHERE [rollno] = @rollno">
<DeleteParameters>
<asp:Parameter Name="rollno" Type="Int32" />
</DeleteParameters>
<InsertParameters>
<asp:Parameter Name="rollno" Type="Int32" />
<asp:Parameter Name="Name" Type="String" />
<asp:Parameter Name="class" Type="String" />
</InsertParameters>
<UpdateParameters>
<asp:Parameter Name="Name" Type="String" />
<asp:Parameter Name="class" Type="String" />
<asp:Parameter Name="rollno" Type="Int32" />
</UpdateParameters></asp:SqlDataSource>
<br /><br />
</div></form>
</body></html>

```

Design:



Web.config

```
<?xml version="1.0"?>
<!--
For more information on how to configure your ASP.NET application, please visit
http://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
<connectionStrings>
<add name="ConnectionString" connectionString="Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\Databas
e.mdf;Integrated Security=True"
providerName="System.Data.SqlClient" />
</connectionStrings>
<system.web>
<compilation debug="true" targetFramework="4.5.2" />
<httpRuntime targetFramework="4.5.2" />
</system.web>
</configuration>
```

Default.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class _Default : System.Web.UI.Page
{
protected void Page_Load(object sender, EventArgs e)
{
string ConnectionString =
ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString;
SqlConnection con = new SqlConnection(ConnectionString);
SqlCommand cmd = new SqlCommand("Select * from student", con);
con.Open();
```

```

SqlDataAdapter adapter = new SqlDataAdapter(cmd);
DataSet ds = new DataSet();
adapter.Fill(ds, "student");
}
protected void Button1_Click(object sender, EventArgs e)
{
SqlDataSource1.InsertParameters["rollno"].DefaultValue = TextBox1.Text;
SqlDataSource1.InsertParameters["Name"].DefaultValue = TextBox2.Text;
SqlDataSource1.InsertParameters["class"].DefaultValue = TextBox3.Text;
SqlDataSource1.Insert();
}
protected void Button2_Click(object sender, EventArgs e)
{
SqlDataSource1.DeleteParameters["rollno"].DefaultValue = TextBox1.Text;
SqlDataSource1.Delete();
} }

```

Output:

Enter Your Roll_No:

Enter Your Name:

Enter Your Class:

❖ Insert: Delete :

Enter Your Roll_No:

Enter Your Name:

Enter Your Class:

rollno	Name	class
27	Suraj	tyit
35	Vikas	tyit
47	Jayshree	tyit

Enter Your Roll_No:

Enter Your Name:

Enter Your Class:

rollno	Name	class
27	Suraj	tyit
35	Vikas	tyit
47	Jayshree	tyit

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

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 id="Head1" runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div align="center">
<asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>" 
SelectCommand="SELECT * FROM [student]"
ConflictDetection="CompareAllValues" DeleteCommand="DELETE FROM
[student] WHERE [id] = @original_id AND (([name] = @original_name) OR
([name] IS NULL AND @original_name IS NULL))" InsertCommand="INSERT
INTO [student] ([id], [name]) VALUES (@id, @name)"
OldValuesParameterFormatString="original_{0}" UpdateCommand="UPDATE
[student] SET [name] = @name WHERE [id] = @original_id AND (([name] =
@original_name) OR ([name] IS NULL AND @original_name IS NULL))">
<DeleteParameters>
<asp:Parameter Name="original_id" Type="Int32" />
<asp:Parameter Name="original_name" Type="String" />
</DeleteParameters>
<InsertParameters>
<asp:Parameter Name="id" Type="Int32" />
<asp:Parameter Name="name" Type="String" />
</InsertParameters>
<UpdateParameters>
<asp:Parameter Name="name" Type="String" />
<asp:Parameter Name="original_id" Type="Int32" />
<asp:Parameter Name="original_name" Type="String" />
</UpdateParameters>
</asp:SqlDataSource>
<br />
<asp:DetailsView ID="DetailsView1" runat="server" AllowPaging="True"
```

```
DataSourceID="SqlDataSource1" Height="50px" Width="125px"
AutoGenerateRows="False" DataKeyNames="id">
<Fields>
<asp:BoundField DataField="id" HeaderText="id" ReadOnly="True"
SortExpression="id" />
<asp:BoundField DataField="name" HeaderText="name" SortExpression="name"
/>
<asp:CommandField ShowDeleteButton="True" ShowEditButton="True"
ShowInsertButton="True" />
</Fields>
</asp:DetailsView><br />
<asp:SqlDataSource ID="SqlDataSource2" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>">
SelectCommand="SELECT * FROM [student]"
ConflictDetection="CompareAllValues" DeleteCommand="DELETE FROM
[student] WHERE [id] = @original_id AND (([name] = @original_name) OR
([name] IS NULL AND @original_name IS NULL))" InsertCommand="INSERT
INTO [student] ([id], [name]) VALUES (@id, @name)"
OldValuesParameterFormatString="original_{0}" UpdateCommand="UPDATE
[student] SET [name] = @name WHERE [id] = @original_id AND (([name] =
@original_name) OR ([name] IS NULL AND @original_name IS NULL))">
<DeleteParameters>
<asp:Parameter Name="original_id" Type="Int32" />
<asp:Parameter Name="original_name" Type="String" />
</DeleteParameters>
<InsertParameters>
<asp:Parameter Name="id" Type="Int32" />
<asp:Parameter Name="name" Type="String" />
</InsertParameters>
<UpdateParameters>
<asp:Parameter Name="name" Type="String" />
<asp:Parameter Name="original_id" Type="Int32" />
<asp:Parameter Name="original_name" Type="String" />
</UpdateParameters>
</asp:SqlDataSource><br />
<asp:FormView ID="FormView1" runat="server" AllowPaging="True"
DataSourceID="SqlDataSource2" DataKeyNames="id">
<EditItemTemplate>
id:
<asp:Label ID="idLabel1" runat="server" Text='<%# Eval("id") %>' /><br />
```

```
name:  
<asp:TextBox ID="nameTextBox" runat="server" Text='<%# Bind("name") %>'>  
</asp:TextBox>  
<br />  
<asp:LinkButton ID="UpdateButton" runat="server" CausesValidation="True"  
CommandName="Update" Text="Update" />  
&nbsp;<asp:LinkButton ID="UpdateCancelButton" runat="server"  
CausesValidation="False" CommandName="Cancel" Text="Cancel" />  
</EditItemTemplate>  
<InsertItemTemplate>  
id:  
<asp:TextBox ID="idTextBox" runat="server" Text='<%# Bind("id") %>'>  
<br />  
name:  
<asp:TextBox ID="nameTextBox" runat="server" Text='<%# Bind("name") %>'>  
</asp:TextBox>  
<br />  
<asp:LinkButton ID="InsertButton" runat="server" CausesValidation="True"  
CommandName="Insert" Text="Insert" />  
&nbsp;<asp:LinkButton ID="InsertCancelButton" runat="server"  
CausesValidation="False" CommandName="Cancel" Text="Cancel" />  
</InsertItemTemplate>  
<ItemTemplate>  
id:<asp:Label ID="idLabel" runat="server" Text='<%# Eval("id") %>'><br />  
name:<asp:Label ID="nameLabel" runat="server" Text='<%# Bind("name") %>'>  
<br />  
<asp:LinkButton ID="EditButton" runat="server" CausesValidation="False"  
CommandName="Edit" Text="Edit" />  
&nbsp;<asp:LinkButton ID="DeleteButton" runat="server"  
CausesValidation="False" CommandName="Delete" Text="Delete" />  
&nbsp;<asp:LinkButton ID="NewButton" runat="server"  
CausesValidation="False" CommandName="New" Text="New" />  
</ItemTemplate>  
</asp:FormView>  
</div>  
</form>  
</body>  
</html>
```

Design.aspx

Default.aspx dbo.student [Data]

SqlDataSource - SqlDataSource1

id	0
name	abc
Edit Delete New	
1 2	

SqlDataSource - SqlDataSource2

id: 0
name: abc

[Edit](#) [Delete](#) [New](#)

1 [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)
    { }
}
```

Output:

IN Android: Sending data College Preference F

id	1
name	Suraj
Edit Delete New	
1 2 3	

id: 2
name: Vikas

[Edit](#) [Delete](#) [New](#)

1 [2](#) [3](#)

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

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 id="Head1" runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div align="center">
<asp:GridView ID="GridView1" runat="server" AllowSorting="True"
AutoGenerateColumns="False" DataSourceID="ObjectDataSource1"
DataKeyNames="id">
<Columns>
<asp:BoundField DataField="id" HeaderText="id" SortExpression="id"
ReadOnly="True" />
<asp:BoundField DataField="name" HeaderText="name" SortExpression="name"
/>
</Columns>
</asp:GridView><br />
<asp:ObjectDataSource ID="ObjectDataSource1" runat="server"
InsertMethod="Insert" OldValuesParameterFormatString="original_{0}"
SelectMethod="GetData"
TypeName="DataSetTableAdapters.studentTableAdapter"
DeleteMethod="Delete" UpdateMethod="Update">
<DeleteParameters>
<asp:Parameter Name="Original_id" Type="Int32" />
</DeleteParameters>
<InsertParameters>
<asp:Parameter Name="id" Type="Int32" />
<asp:Parameter Name="name" Type="String" />
</InsertParameters>
<UpdateParameters>
<asp:Parameter Name="name" Type="String" />
```

```

<asp:Parameter Name="Original_id" Type="Int32" />
</UpdateParameters>
</asp:ObjectDataSource>
</div></form></body>
</html>

```

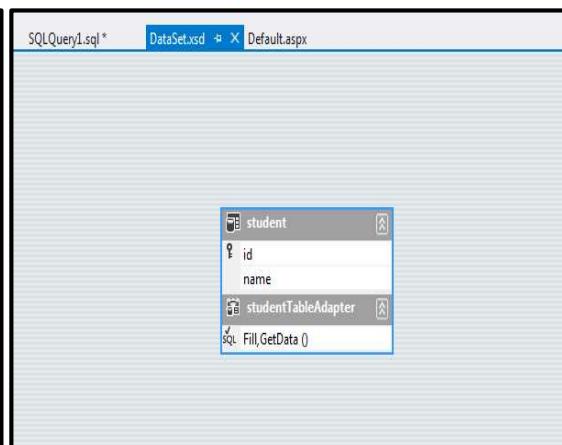
Design:

i)Default.aspx

A screenshot of the ASP.NET design interface for Default.aspx. It shows a grid with columns labeled 'id' and 'name'. The data rows are: 0 abc, 1 abc, 2 abc, 3 abc, 4 abc. Below the grid, a tooltip reads 'ObjectDataSource - ObjectDataSource1'.

id	name
0	abc
1	abc
2	abc
3	abc
4	abc

ii)DataSet.xsd



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)
    {
    }
}Output:

```

A screenshot of a web browser displaying the output of the ASP.NET page. It shows a grid with columns 'id' and 'name'. The data rows are: 1 Suraj, 2 Vikas.

id	name
1	Suraj
2	Vikas

Practical No:09

Working with GridView control

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

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><br />
<asp:GridView ID="GridView1" runat="server" AllowPaging="True"
AllowSorting="True" AutoGenerateColumns="False" CellPadding="4"
DataKeyNames="First_Name" DataSourceID="SqlDataSource1"
ForeColor="#333333" GridLines="None">
<AlternatingRowStyle BackColor="White" />
<Columns>
<asp:CommandField ShowDeleteButton="True" ShowEditButton="True"
ShowSelectButton="True" />
<asp:BoundField DataField="First_Name" HeaderText="First_Name"
ReadOnly="True" SortExpression="First_Name" />
<asp:BoundField DataField="Last_Name" HeaderText="Last_Name"
SortExpression="Last_Name" />
<asp:BoundField DataField="City" HeaderText="City" SortExpression="City" />
<asp:BoundField DataField="Country" HeaderText="Country"
SortExpression="Country" />
</Columns>
<EditRowStyle BackColor="#2461BF" />
<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
<PagerStyle BackColor="#2461BF" ForeColor="White"
HorizontalAlign="Center" />
<RowStyle BackColor="#EFF3FB" />
```

```
<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True"
ForeColor="#333333" />
<SortedAscendingCellStyle BackColor="#F5F7FB" />
<SortedAscendingHeaderStyle BackColor="#6D95E1" />
<SortedDescendingCellStyle BackColor="#E9EBEF" />
<SortedDescendingHeaderStyle BackColor="#4870BE" />
</asp:GridView>
<br /><br />
<asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>" DeleteCommand="DELETE FROM [student1] WHERE [First_Name] = @First_Name" InsertCommand="INSERT INTO [student1] ([First_Name], [Last_Name], [City], [Country]) VALUES (@First_Name, @Last_Name, @City, @Country)" SelectCommand="SELECT * FROM [student1]" UpdateCommand="UPDATE [student1] SET [Last_Name] = @Last_Name, [City] = @City, [Country] = @Country WHERE [First_Name] = @First_Name">
<DeleteParameters>
<asp:Parameter Name="First_Name" Type="String" />
</DeleteParameters>
<InsertParameters>
<asp:Parameter Name="First_Name" Type="String" />
<asp:Parameter Name="Last_Name" Type="String" />
<asp:Parameter Name="City" Type="String" />
<asp:Parameter Name="Country" Type="String" />
</InsertParameters>
<UpdateParameters>
<asp:Parameter Name="Last_Name" Type="String" />
<asp:Parameter Name="City" Type="String" />
<asp:Parameter Name="Country" Type="String" />
<asp:Parameter Name="First_Name" Type="String" />
</UpdateParameters>
</asp:SqlDataSource>
<br />
<br />
</div>
</form>
</body>
</html>
```

Design.aspx

The screenshot shows the 'Default.aspx' page in design mode. At the top, there are tabs for 'dbo.student1 [Data]', 'SQLQuery1.sql*', 'dbo.Table [Design]*', and 'Default.aspx*'. Below the tabs is a 'GridView' control with the following columns: First Name, Last Name, City, and Country. Each row contains three links: 'Edit', 'Delete', and 'Select'. The data in the grid is all 'abc'. At the bottom of the grid, there are two blue buttons labeled '1' and '2'. Below the grid, a 'SqlDataSource' component is connected to 'SqlDataSource1'. The entire page has a light gray background.

Database

The screenshot shows the 'student1' table in 'dbo.Table [Design]'. The table has four columns: First_Name, Last_Name, City, and Country. The data is as follows:

	First_Name	Last_Name	City	Country
1	Suraj	Mishra	Pune	India
2	Vikas	Pandey	Mumbai	India
3	jayshree	yadav	Mumbai	India
4	NULL	NULL	NULL	NULL

Code:

```
CREATE TABLE student1
(First_Name NCHAR(13) PRIMARY KEY,
Last_Name NCHAR(10),
City NCHAR(10),
Country NCHAR(10));
```

Output:

The screenshot shows the 'Default.aspx' page running in a browser. The address bar shows 'http://localhost:51854/Default.aspx'. The page displays the same 'GridView' control as the design view, showing the data from the 'student1' table. The data is as follows:

	First Name	Last Name	City	Country			
1	Edit	Delete	Select	jayshree	yadav	Mumbai	India
2	Edit	Delete	Select	Suraj	Mishra	Pune	India
3	Edit	Delete	Select	Vikas	Pandey	Mumbai	India

❖ Update:

	<u>First Name</u>	<u>Last Name</u>	<u>City</u>	<u>Country</u>
Edit	Delete	Select	jayshree	yadav Mumbai India
Edit	Delete	Select	Suraj	Mishra Mumbai India
Edit	Delete	Select	Vikas	Pandey Mumbai India

❖ Delete:

	<u>First Name</u>	<u>Last Name</u>	<u>City</u>	<u>Country</u>
Edit	Delete	Select	Suraj	Mishra Mumbai India
Edit	Delete	Select	Vikas	Pandey Mumbai India

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

Default.aspx

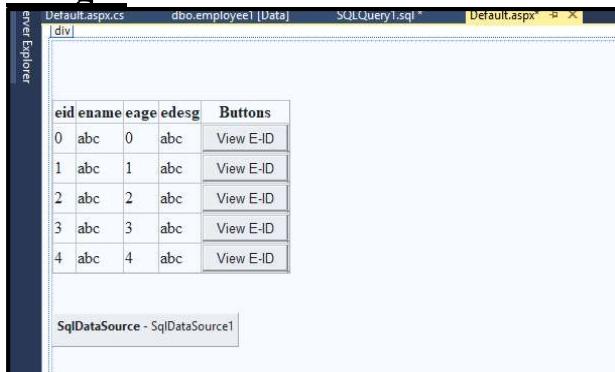
```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div><br />
 &nbsp;&nbsp;&nbsp;
<br />
<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="eid" DataSourceID="SqlDataSource1">
<Columns>
<asp:BoundField DataField="eid" HeaderText="eid" ReadOnly="True"
SortExpression="eid" />
<asp:BoundField DataField="ename" HeaderText="ename"
SortExpression="ename" />
<asp:BoundField DataField="eage" HeaderText="eage" SortExpression="eage" />
<asp:BoundField DataField="edesg" HeaderText="edesg" SortExpression="edesg"
/>
```

```

<asp:ButtonField ButtonType="Button" CommandName="Edit"
HeaderText="Buttons" ShowHeader="True" Text="View E-ID" />
</Columns>
</asp:GridView>
<br /><br />
<asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>">
DeleteCommand="DELETE FROM [employee1] WHERE [eid] = @eid"
InsertCommand="INSERT INTO [employee1] ([eid], [ename], [eage], [edesg])
VALUES (@eid, @ename, @eage, @edesg)" SelectCommand="SELECT *
FROM [employee1]" UpdateCommand="UPDATE [employee1] SET [ename] =
@ename, [eage] = @eage, [edesg] = @edesg WHERE [eid] = @eid">
<DeleteParameters>
<asp:Parameter Name="eid" Type="Int32" />
</DeleteParameters>
<InsertParameters>
<asp:Parameter Name="eid" Type="Int32" />
<asp:Parameter Name="ename" Type="String" />
<asp:Parameter Name="eage" Type="Int32" />
<asp:Parameter Name="edesg" Type="String" />
</InsertParameters>
<UpdateParameters>
<asp:Parameter Name="ename" Type="String" />
<asp:Parameter Name="eage" Type="Int32" />
<asp:Parameter Name="edesg" Type="String" />
<asp:Parameter Name="eid" Type="Int32" />
</UpdateParameters>
</asp:SqlDataSource><br /></div>
</form></body>
</html>

```

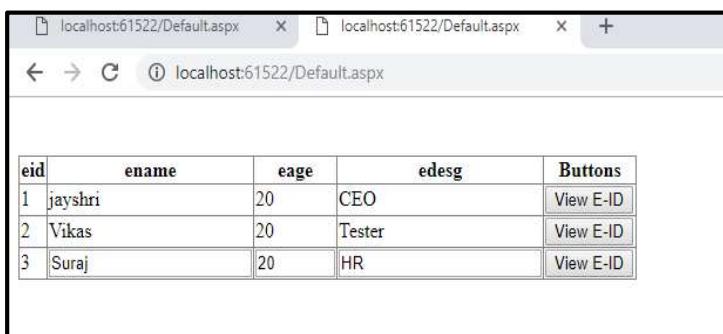
Design:



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 GridView1_RowCommand(object sender, GridViewCommandEventArgs e)
    {
        if (e.CommandName == "click")
        {
            Response.Write(e.CommandName);
            GridView1.Rows[Convert.ToInt16(e.CommandArgument)].BackColor =
System.Drawing.Color.Blue;
        }
    }
    protected void GridView1_SelectedIndexChanged(object sender, EventArgs e)
    {
    }
}
```

Output:



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

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 align="center">  
<asp:GridView ID="GridView1" runat="server" AllowPaging="True"  
AutoGenerateColumns="False" Caption="Student Details" CellPadding="10"  
CellSpacing="2" DataSourceID="SqlDataSource2" ForeColor="#333333"  
GridLines="None" PageSize="5" Width="172px" DataKeyNames="eid">  
 <AlternatingRowStyle BackColor="White" ForeColor="#284775" />  
 <Columns>  
 <asp:BoundField DataField="eid" HeaderText="eid" SortExpression="eid"  
 ReadOnly="True" />  
 <asp:BoundField DataField="ename" HeaderText="ename"  
 SortExpression="ename" />  
 <asp:BoundField DataField="eage" HeaderText="eage" SortExpression="eage" />  
 <asp:BoundField DataField="edesg" HeaderText="edesg" SortExpression="edesg"  
 /></Columns>  
 <EditRowStyle BackColor="#999999" />  
 <FooterStyle BackColor="#5D7B9D" Font-Bold="True" ForeColor="White" />  
 <HeaderStyle BackColor="#5D7B9D" Font-Bold="True" ForeColor="White" />  
 <PagerSettings FirstPageText="First" LastPageText="Last" NextPageText="Next"  
 Position="TopAndBottom" PreviousPageText="Previous" />  
 <PagerStyle BackColor="#284775" ForeColor="White" HorizontalAlign="Center"  
 />  
 <RowStyle BackColor="#F7F6F3" ForeColor="#333333" />  
 <SelectedRowStyle BackColor="#E2DED6" Font-Bold="True"  
 ForeColor="#333333" />  
 <SortedAscendingCellStyle BackColor="#E9E7E2" />  
 <SortedAscendingHeaderStyle BackColor="#506C8C" />  
 <SortedDescendingCellStyle BackColor="#FFFDF8" />  
 <SortedDescendingHeaderStyle BackColor="#6F8DAE" />
```

```

</asp:GridView>
<br /><br />
<asp:SqlDataSource ID="SqlDataSource2" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>">
DeleteCommand="DELETE FROM [employee1] WHERE [eid] = @eid"
InsertCommand="INSERT INTO [employee1] ([eid], [ename], [eage], [edesg])
VALUES (@eid, @ename, @eage, @edesg)" SelectCommand="SELECT *
FROM [employee1]" UpdateCommand="UPDATE [employee1] SET [ename] =
@ename, [eage] = @eage, [edesg] = @edesg WHERE [eid] = @eid">
<DeleteParameters>
<asp:Parameter Name="eid" Type="Int32" />
</DeleteParameters>
<InsertParameters>
<asp:Parameter Name="eid" Type="Int32" />
<asp:Parameter Name="ename" Type="String" />
<asp:Parameter Name="eage" Type="Int32" />
<asp:Parameter Name="edesg" Type="String" />
</InsertParameters>
<UpdateParameters>
<asp:Parameter Name="ename" Type="String" />
<asp:Parameter Name="eage" Type="Int32" />
<asp:Parameter Name="edesg" Type="String" />
<asp:Parameter Name="eid" Type="Int32" />
</UpdateParameters>
</asp:SqlDataSource>
<br /></div>
</form></body>
</html>

```

Design:

The screenshot shows a Microsoft SQL Server Management Studio (SSMS) window. The title bar says "Data" and "SQLQuery1.sql". The main area displays a grid of data with four columns: "eid", "ename", "eage", and "edesg". The data consists of five rows, each containing the value "abc" for "ename" and "edesg", and numerical values for "eid" and "eage". The top and bottom navigation bars both show "1 2", indicating there are two pages of data.

eid	ename	eage	edesg
0	abc	0	abc
1	abc	1	abc
2	abc	2	abc
3	abc	3	abc
4	abc	4	abc

Code:

```
create table employee1(eid int primary key,ename varchar(20),eage
int,edesg varchar(20));
```

Database:

The screenshot shows the 'Server Explorer' pane on the left and the 'Object Explorer' pane at the top. The central area displays the 'dbo.employee1 [Data]' tab of the 'SQLQuery1.sql' window. The table has four columns: eid, ename, eage, and edesg. The data is as follows:

	eid	ename	eage	edesg
1	jayshri	20	CEO	
2	Vikas	20	Tester	
3	Suraj	20	HR	
4	Pratik	30	EO	
5	Kirti	40	Director	
6	Swapna	78	Manager	
7	Monica	30	AM	
8	Aparna	40	PRO	
9	Rushi	78	Peon	
10	Vijay	76	Legal Advisor	
	NULL	NULL	NULL	NULL

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 GridView1_PageIndexChanging(Object
sender,GridViewEventArgs e)
        {
            GridView1PageIndex = e.NewPageIndex;
        }
    }
}
```

Output:

Page 1

The screenshot shows a 'Student Details' page with a '1 2' header. Below it is a 'GridView' control displaying the same data as the database table. The columns are eid, ename, eage, and edesg. The data is as follows:

Student Details			
1 2			
eid	ename	eage	edesg
1	jayshri	20	CEO
2	Vikas	20	Tester
3	Suraj	20	HR
4	Pratik	30	EO
5	Kirti	40	Director

The screenshot shows a 'Student Details' page with a '1 2' header. Below it is a 'GridView' control displaying the same data as the database table. The columns are eid, ename, eage, and edesg. The data is as follows:

Student Details			
1 2			
eid	ename	eage	edesg
6	Swapna	78	Manager
7	Monica	30	AM
8	Aparna	40	PRO
9	Rushi	78	Peon
10	Vijay	76	Legal Advisor

Practical No:10

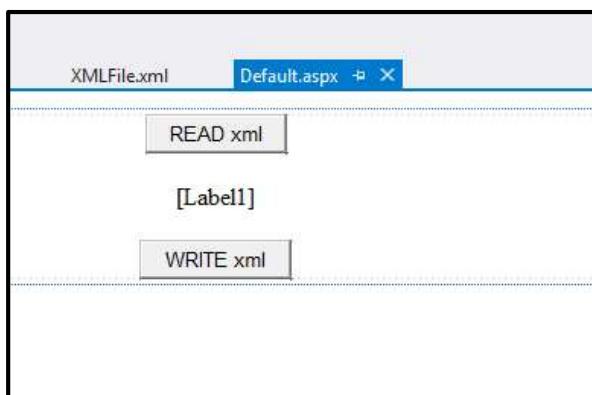
Working with AJAX and XML

- a) Create a web application to demonstrate reading and writing operation with XML.

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 id="Head1" runat="server">
<title></title></head>
<body>
<form id="form1" runat="server">
<div align="center">
<asp:Button ID="Button1" runat="server" Text="READ xml"
onclick="Button1_Click" />
<br /><br />
<asp:Label ID="Label1" runat="server" Text=""></asp:Label>
<br /><br />
<asp:Button ID="Button2" runat="server" Text="WRITE xml"
onclick="Button2_Click" />
</div>
</form>
</body>
</html>
```

Design:

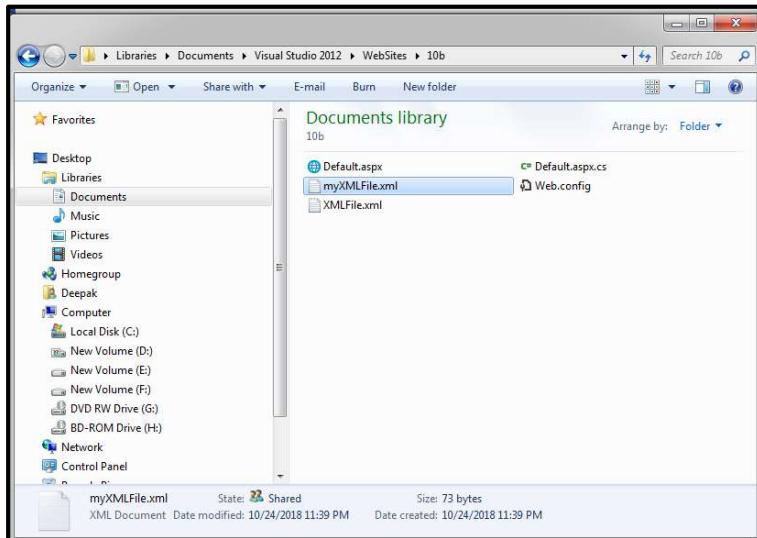


Default.aspx.cs

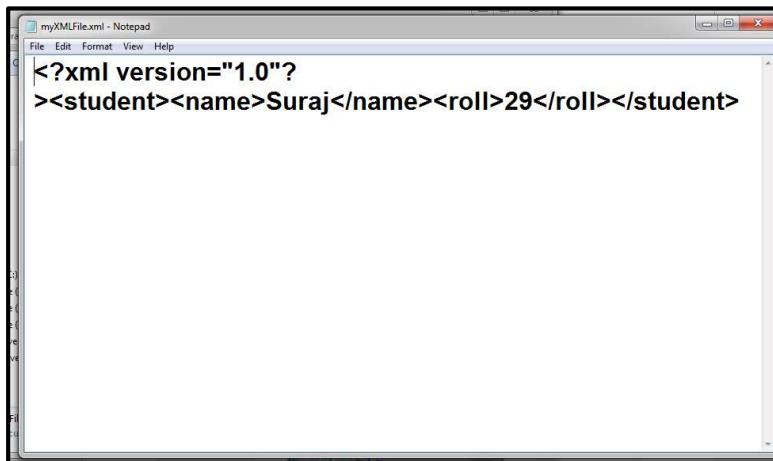
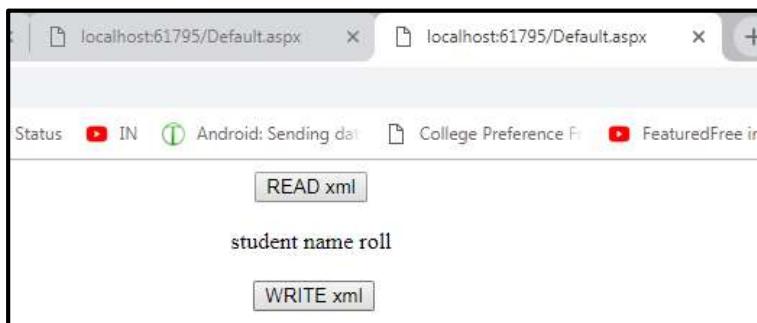
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Xml;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        XmlReader red = XmlReader.Create(@"http://localhost:61795/XMLFile.xml");
        while (red.Read())
        {
            if (red.NodeType.Equals(XmlNodeType.Element))
            {
                string s = Label1.Text + " ";
                Label1.Text = s + red.Name;
            }
        }
        red.Close();
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        XmlTextWriter textWriter = new
        XmlTextWriter("C:\\\\Users\\\\Deepak\\\\Documents\\\\Visual Studio
        2012\\\\WebSites\\\\10b\\\\myXMLFile.xml", null);
        textWriter.WriteStartDocument();
        textWriter.WriteStartElement("student");
        textWriter.WriteStartElement("name", "");
        textWriter.WriteString("Suraj");
        textWriter.WriteEndElement();
        textWriter.WriteStartElement("roll", "");
        textWriter.WriteString("29");
        textWriter.WriteEndElement();
        textWriter.WriteEndDocument();
        textWriter.Close(); } }
```

XML.File

```
<?xml version="1.0"?><student><name>Suraj</name><roll>29</roll></student>
```



Output:

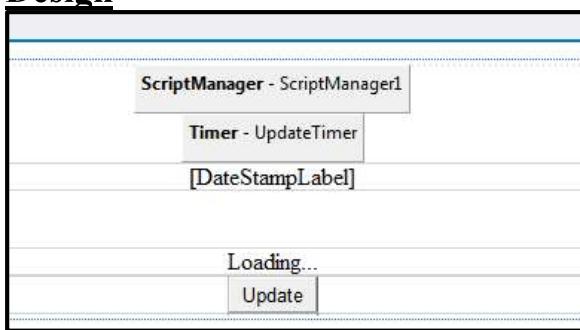


b)Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties.

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 id="Head1" runat="server">
<title></title>
</head><body>
<form id="form1" runat="server">
<div align="center">
<asp:ScriptManager ID="ScriptManager1" runat="server" />
<asp:Timer runat="server" id="UpdateTimer" interval="500"
onTick="UpdateTimer_Tick" />
<asp:UpdatePanel runat="server" id="TimedPanel" updateMode="Conditional">
<Triggers>
<asp:AsyncPostBackTrigger controlID="UpdateTimer" eventName="Tick" />
</Triggers>
<ContentTemplate>
<asp:Label runat="server" id="DateStampLabel" />
</ContentTemplate>
</asp:UpdatePanel><br /><br />
<asp:UpdateProgress runat="server" id="PageUpdateProgress">
<ProgressTemplate>
Loading...
</ProgressTemplate>
</asp:UpdateProgress>
<asp:UpdatePanel runat="server" id="Panel">
<ContentTemplate>
<asp:Button runat="server" id="UpdateButton" onclick="UpdateButton_Click"
text="Update" />
</ContentTemplate>
</asp:UpdatePanel>
</div></form>
</body>
</html>
```

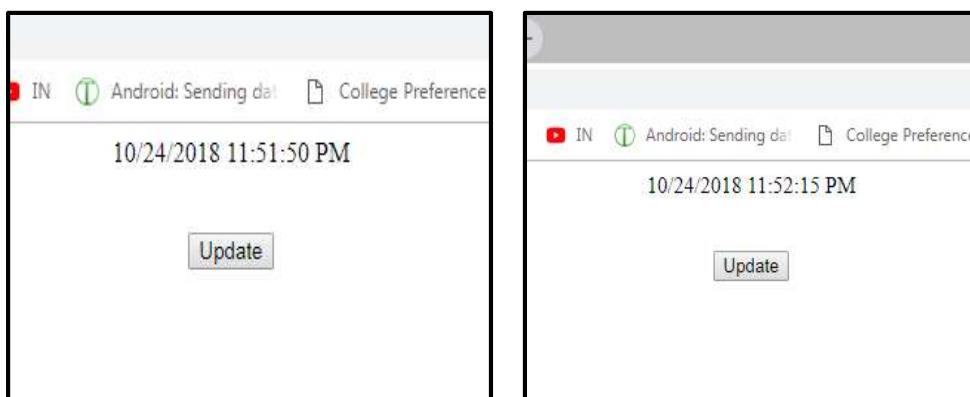
Design



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 UpdateTimer_Tick(object sender, EventArgs e)
    {
        DateStampLabel.Text = DateTime.Now.ToString();
    }
    protected void UpdateButton_Click(object sender, EventArgs e)
    {
        System.Threading.Thread.Sleep(5000);
    }
}
```

Output:

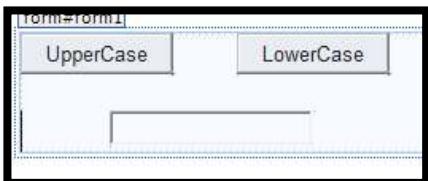


Practical No:11

Programs to create and use DLL

Default.aspx

Design:



Default.aspx.cs

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

```
namespace ASClassLIB
{
    public class AS
    {
        public string UpperConvert(string text)
        {
            return text.ToUpper();
        }
        public string LowerConvert(string text)
        {
            return text.ToLower();
        }
    }
}
```

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)
    {
        ASClassLIB.AS a = new ASClassLIB.AS();
        TextBox1.Text = a.UpperConvert(TextBox1.Text);
    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        ASClassLIB.AS a = new ASClassLIB.AS();
        TextBox1.Text = a.LowerConvert(TextBox1.Text);
    }
}
```

Output:

