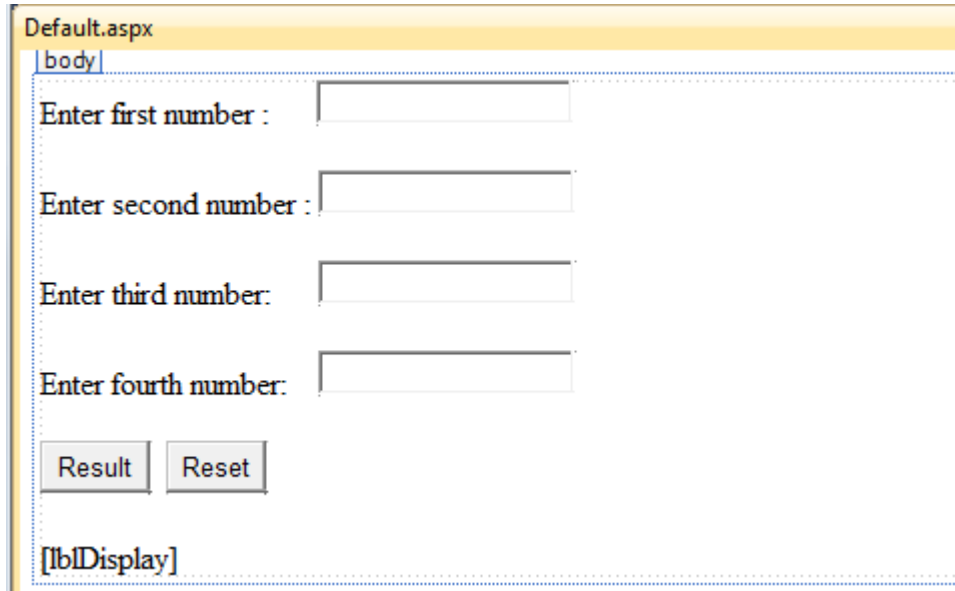


PRACTICAL 1

A] AIM: Create an application that obtains four int values from the user and displays the product.

Default.aspx[Design]



Default.aspx

body

Enter first number :

Enter second number :

Enter third number:

Enter fourth number:

[lbDisplay]

Default.aspx[Source]

TextBox3	ID	txtThree
TextBox4	ID	txtFour
Label1	ID	lblDisplay
	Text	
Button1	ID	btnResult
	Text	Result
Button2	ID	btnReset
	Text	Reset

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)
    {
        txtOne.Focus();
    }
    protected void btnResult_Click(object sender, EventArgs e)
    {
        int pro;
        pro=Convert.ToInt32(txtOne.Text)*Convert.ToInt32(txtTwo.Text)*Convert.ToInt32(txtThree.Text)
        *Convert.ToInt32(txtFour.Text);
        lblDisplay.Text = "Result: "+pro.ToString();
    }
    protected void btnReset_Click(object sender, EventArgs e)
    {
        txtOne.Text = "";
        txtTwo.Text = "";
        txtThree.Text = "";
        txtFour.Text = "";
        lblDisplay.Text = "";
    }
}

```

Output

localhost × + − □ ×

← ↻ ⓘ localhost:57367/ 📖 ☆ ⋮

Enter first number :

Enter second number :

Enter third number:

Enter fourth number:

Result: [1803979721](#)

B] AIM: Create an application to demonstrate string operations.

Default.aspx[Design]

Default.aspx

body

Enter String :

Label
Label
Label
Label
Label
Label
Label
Label
Label
Label
Label

Default.aspx[Source]

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

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

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      Enter String :&nbsp;
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
      <br /><br />
      <asp:Button ID="btnResult" runat="server" onclick="btnResult_Click"
        Text="Result" />
      &nbsp;
      <asp:Button ID="btnReset" runat="server" onclick="btnReset_Click"
        Text="Reset" />
      <br /> <br />

      <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
      <br />
      <asp:Label ID="Label2" runat="server" Text="Label"></asp:Label>
      <br />
      <asp:Label ID="Label3" runat="server" Text="Label"></asp:Label>
      <br />
```

```

<asp:Label ID="Label4" runat="server" Text="Label"></asp:Label>
<br />
<asp:Label ID="Label5" runat="server" Text="Label"></asp:Label>
<br />
<asp:Label ID="Label6" runat="server" Text="Label"></asp:Label>
<br />
<asp:Label ID="Label7" runat="server" Text="Label"></asp:Label>
<br />
<asp:Label ID="Label8" runat="server" Text="Label"></asp:Label>
<br />
<asp:Label ID="Label9" runat="server" Text="Label"></asp:Label>
<br />
<asp:Label ID="Label10" runat="server" Text="Label"></asp:Label>
<br />
</div>
</form>
</body>
</html>

```

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
Label1	ID	Label1
Label2	ID	Label2
Label3	ID	Label3
Label4	ID	Label4
Label5	ID	Label5
Label6	ID	Label6
Label7	ID	Label7
Label8	ID	Label8
Label9	ID	Label9
Label10	ID	Label10
Button1	ID	btnResult
	Text	Result
Button2	ID	btnReset
	Text	Reset

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
{

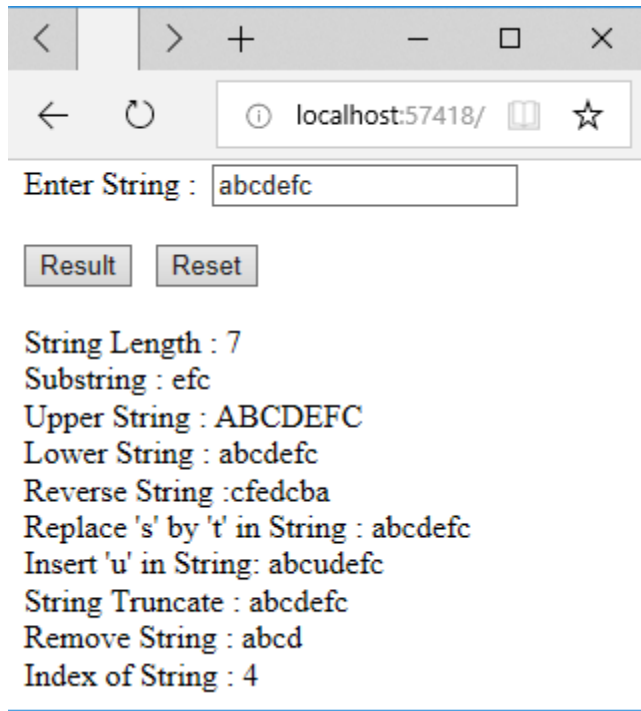
```

```

protected void btnResult_Click(object sender, EventArgs e)
{
    String s = TextBox1.Text;
    Label1.Text = "String Length : " + s.Length;
    Label2.Text = "Substring : " + s.Substring(4, 3);
    Label3.Text = "Upper String : " + s.ToUpper();
    Label4.Text = "Lower String : " + s.ToLower();
    String rev = "";
    for (int i = s.Length - 1; i >= 0; i--)
    {
        rev = rev + s[i];
    }
    Label5.Text = "Reverse String : " + rev.ToString();
    Label6.Text = "Replace 's' by 't' in String : " + s.Replace('s', 't');
    Label7.Text = "Insert 'u' in String: " + s.Insert(3, "u");
    Label8.Text = "String Truncate : " + s.Trim();
    Label9.Text = "Remove String : " + s.Remove(4);
    Label10.Text = "Index of String : " + s.IndexOf('e');
}
protected void btnReset_Click(object sender, EventArgs e)
{
    Label1.Text = "";
    Label2.Text = "";
    Label3.Text = "";
    Label4.Text = "";
    Label5.Text = "";
    Label6.Text = "";
    Label7.Text = "";
    Label8.Text = "";
    Label9.Text = "";
    Label10.Text = "";
    TextBox1.Text = "";
}
}

```

Output



C] AIM: Write an application that receives the following information from a set of students:

STUDENT ID:

STUDENT NAME:

COURSE NAME:

DATE OF BIRTH:

The application should also display the information of all the students once the data is entered.

Default.aspx[Design]

Default.aspx

body

Enter Student Id :

Enter Student Name :

Enter Course Name:

Date of Birth :

< September 2018 >						
Mo	Tu	We	Th	Fr	Sa	Su
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Show Reset

Label

Label

Label

Label

Label

Default.aspx[Source]

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

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

```
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
    <title></title>  
</head>  
<body>  
    <form id="form1" runat="server">  
        <div>  
            Enter Student Id :&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>  
            <br /><br />  
            Enter Student Name :  
            <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>  
            <br /><br />  
            Enter Course Name:&nbsp;   &nbsp;  &nbsp;  &nbsp;  &nbsp;  &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>  
            <br />  
            <br />  
            Date of Birth :<asp:Calendar ID="Calendar1" runat="server" BackColor="#FFFFCC"  
                BorderColor="#FFCC66" BorderWidth="1px" DayNameFormat="Shortest"  
                Font-Names="Verdana" Font-Size="8pt" ForeColor="#663399" Height="200px"  
                ShowGridLines="True" Width="220px">  
                <DayHeaderStyle BackColor="#FFCC66" Font-Bold="True" Height="1px" />  
                <NextPrevStyle Font-Size="9pt" ForeColor="#FFFFFF" />  
                <OtherMonthDayStyle ForeColor="#CC9966" />  
                <SelectedDayStyle BackColor="#CCCCFF" Font-Bold="True" />  
                <SelectorStyle BackColor="#FFCC66" />  
                <>TitleStyle BackColor="#990000" Font-Bold="True" Font-Size="9pt"  
                    ForeColor="#FFFFCC" />  
                <TodayDayStyle BackColor="#FFCC66" ForeColor="White" />  
            </asp:Calendar>  
            <br />  
            <asp:Button ID="btnShow" runat="server" onclick=" btnShow_Click "  
                Text="Show" />  
  
            &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <asp:Button ID="btnReset" runat="server" onclick="btnReset_Click"  
                Text="Reset" style="height: 26px" />  
            <br /><br />  
            <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>  
            <br />  
            <asp:Label ID="Label2" runat="server" Text="Label"></asp:Label>  
            <br />  
            <asp:Label ID="Label3" runat="server" Text="Label"></asp:Label>  
            <br />  
            <asp:Label ID="Label4" runat="server" Text="Label"></asp:Label>  
            <br />  
            <asp:Label ID="Label5" runat="server" Text="Label"></asp:Label>  
            <br /><br /> <br /><br /><br /><br />  
        </div>  
    </form>
```

</body>
</html>

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
TextBox2	ID	TextBox2
TextBox3	ID	TextBox3
Calendar1	ID	Calendar1
Label1	ID	Label1
Label2	ID	Label2
Label3	ID	Label3
Label4	ID	Label4
Label5	ID	Label5
Button1	ID	btnShow
	Text	Show
Button2	ID	btnReset
	Text	Reset

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 btnShow_Click(object sender, EventArgs e)
{
    Label1.Text = "You entered: ";
    Label2.Text = "Student Id :" + TextBox1.Text;
    Label3.Text = "Student Name : " + TextBox2.Text;
    Label4.Text = "Course Name : " + TextBox3.Text;
    Label5.Text = "Date of Birth : " + Calendar1.SelectedDate.ToShortDateString();

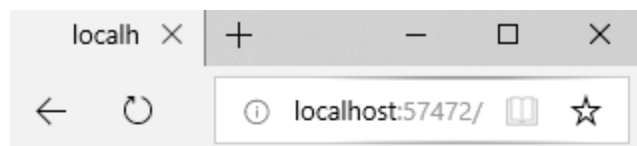
}

protected void btnReset_Click(object sender, EventArgs e)
{
    Label1.Text = "";
    Label2.Text = "";
    Label3.Text = "";
    Label4.Text = "";
    Label5.Text = "";
    TextBox1.Text = "";
    TextBox2.Text = "";
    TextBox3.Text = "";
    Calendar1.SelectedDates.Clear();

}
}

```

Output



Enter Student Id :

Enter Student Name :

Enter Course Name:

Date of Birth :

September 2018						
Mo	Tu	We	Th	Fr	Sa	Su
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Show

Reset

You entered:

Student Id :01

Student Name : abcdef

Course Name : BSC IT

Date of Birth : 01-01-0001

D] AIM: Create an application to demonstrate following operations
i] Generate Fibonacci series

Default.aspx[Design]

Default.aspx

body

Enter Number :

Fibonacci Series Reset

[!bIDisplay]

Default.aspx[Source]

```
<%@ 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">
```

[illegible]

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1

Label1	ID	lblDisplay
	Text	
Button1	ID	btnFibo
	Text	Fibonacci Series
Button2	ID	btnReset
	Text	Reset

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 btnFibo_Click(object sender, EventArgs e)
    {
        int a, b, c, i, n;
        a = 0;
        b = 1;
        lblDisplay.Text = "<b>Fibonacci Series:</b> " + a.ToString() + " " + b.ToString();
        n = Convert.ToInt32(TextBox1.Text);
        for (i = 1; i <= n; i++)
        {
            c = a + b;
            lblDisplay.Text = lblDisplay.Text + " " + c.ToString();
            a = b;
            b = c;
        }
    }
    protected void btnReset_Click(object sender, EventArgs e)
    {
        TextBox1.Text = "";
        lblDisplay.Text = ""; } }

```

Output :-


```

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

```

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
Label1	ID	lblDisplay
	Text	
Button1	ID	btnPrime
	Text	Check Prime Number
Button2	ID	btnReset
	Text	Reset

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 btnPrime_Click(object sender, EventArgs e)
    {
        int i, c = 0, j, num;
        num = Convert.ToInt32(TextBox1.Text);
        for (j = 1; j <= num; j++)
        {
            i = num % j;
            if (i == 0)
            {
                c = c + 1;
            }
        }
        if (c == 2)
        {
            lblDisplay.Text = num.ToString()+" is a prime number";
        }
        else
    }

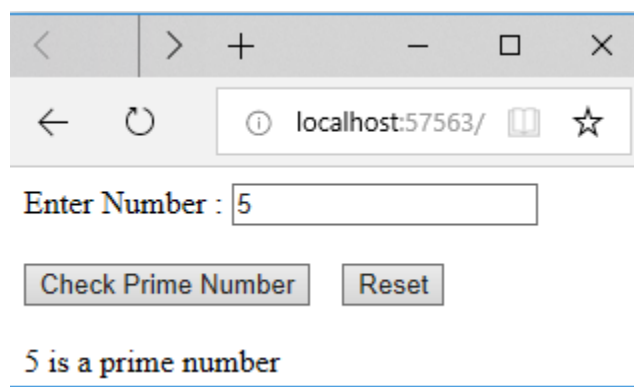
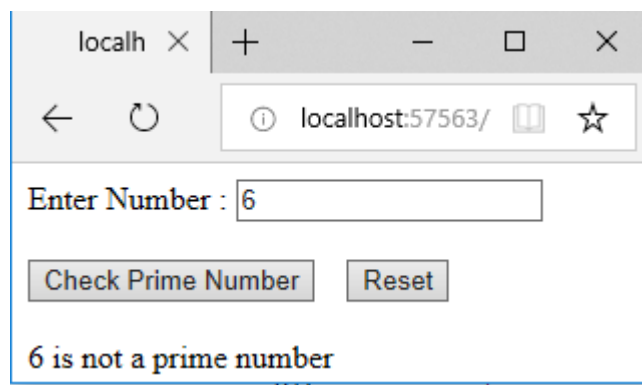
```

```

        {
            lblDisplay.Text = num.ToString()+" is not a prime number ";
        }
    }
    protected void btnReset_Click(object sender, EventArgs e)
    {
        TextBox1.Text = "";
        lblDisplay.Text = "";
    }
}

```

Output:-



iii] Test for vowel

Default.aspx[Design]

Button2	ID	btnReset
	Text	Reset

Default.aspx.cs

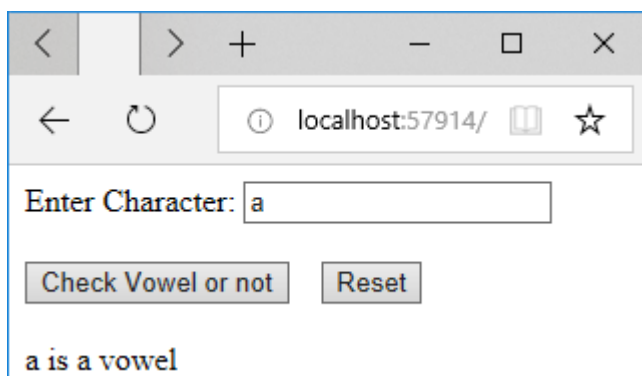
```

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 btnVowel_Click(object sender, EventArgs e)
    {
        char c = Convert.ToChar(TextBox1.Text);
        if (c == 'a' || c == 'A' || c == 'e' || c == 'E' || c == 'i' || c == 'I' || c == 'o' || c == 'O' || c == 'u' ||
c == 'U')
        {
            lblDisplay.Text = c.ToString() + " is a vowel";
        }
        else
        {
            lblDisplay.Text = c.ToString() + " is not a vowel";
        }
    }
    protected void btnReset_Click(object sender, EventArgs e)
    {
        TextBox1.Text = "";
        lblDisplay.Text = "";
    }
}

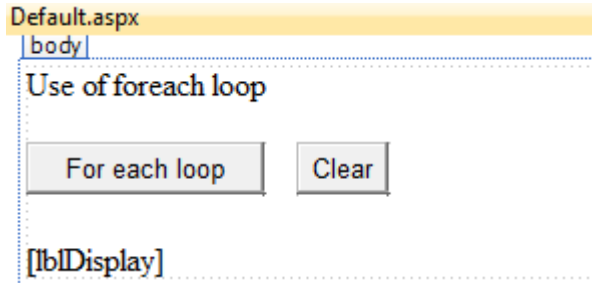
```

Output:-



iv] foreach loop

Default.aspx[Design]



Default.aspx[Source]

```
<%@ 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>  
            Use of foreach loop<br />  
            <br />  
            <asp:Button ID="btnForeach" runat="server" onclick="btnForeach_Click"  
                Text="For each loop" />  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<asp:Button ID="btnClear" runat="server"  
                onclick="btnClear_Click" Text="Clear" />  
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <br />  
            <br />  
            <asp:Label ID="lblDisplay" runat="server"></asp:Label>  
        </div>  
    </form>  
</body>  
</html>
```

Properties

Control	Properties	Property Values
---------	------------	-----------------

Label1	ID	lblDisplay
	Text	
Button1	ID	btnForeach
	Text	For each loop
Button2	ID	btnClear
	Text	Clear

Default.aspx.cs

```

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

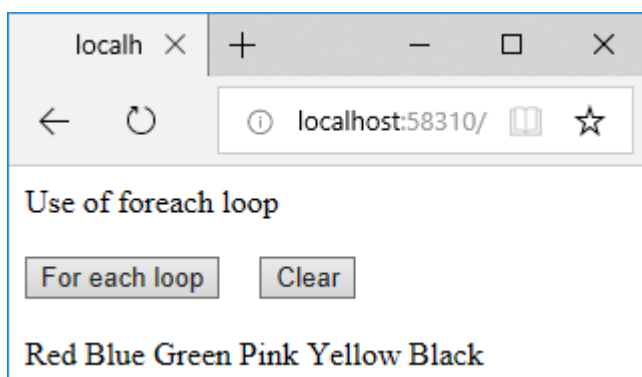
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    protected void btnForeach_Click(object sender, EventArgs e)
    {
        String[] ColorNames = new String[] { "Red", "Blue", "Green", "Pink", "Yellow", "Black" };
        foreach (string s in ColorNames)
        {
            lblDisplay.Text += " " + s.ToString();
        }
    }

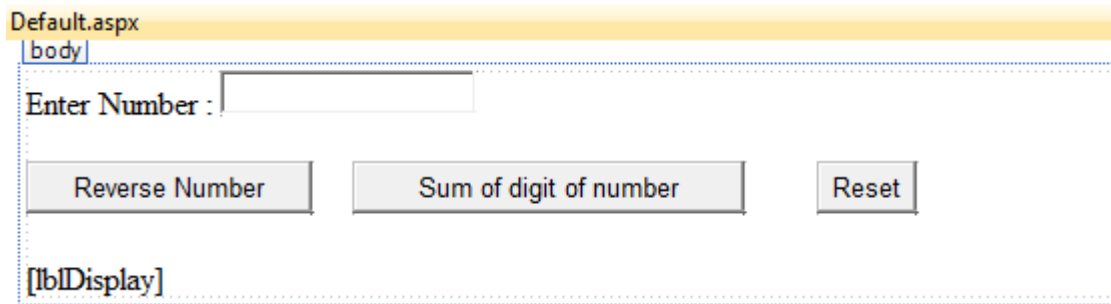
    protected void btnClear_Click(object sender, EventArgs e)
    {
        lblDisplay.Text = "";
    }
}

```

Output



Default.aspx[Design]



Default.aspx[Source]

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

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

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

```
Enter Number :  
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>  
<br />  
<br />  
<asp:Button ID="btnRev" runat="server" onclick="btnRev_Click"  
    Text="Reverse Number" />  
  
  
<asp:Button ID="btnSmd" runat="server" Text="Sum of digit of number"  
    onclick="btnSmd_Click" />  
  
<asp:Button ID="btnReset" runat="server" onclick="btnReset_Click"  
    Text="Reset" />  
<br />  
<br />  
<asp:Label ID="lblDisplay" runat="server"></asp:Label>  
  
</div>  
</form>
```

</body>
</html>

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
Label1	ID	lblDisplay
	Text	
Button1	ID	btnRev
	Text	Reverse Number
Button2	ID	btnSmd
	Text	Sum of digit of number
Button3	ID	btnReset
	Text	Reset

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 btnRev_Click(object sender, EventArgs e)
    {
        int num, i, rev = 0;
        num = Convert.ToInt32(TextBox1.Text);
        while (num > 0)
        {
            i = num % 10;
            rev = i + rev * 10;
```



```

        num = num / 10;
    }
    lblDisplay.Text = "<b>Reverse of <b>" + TextBox1.Text + " <b> is :
</b>" + rev.ToString();

}
protected void btnSmd_Click(object sender, EventArgs e)
{
    int num, i, sum = 0;
    num = Convert.ToInt32(TextBox1.Text);
    while (num > 0)
    {
        i = num % 10;
        sum = i + sum ;
        num = num / 10;
    }
    lblDisplay.Text = "<bSum of digits  of <b>" + TextBox1.Text + " <b> is : </b>" +
sum.ToString();

}
protected void btnReset_Click(object sender, EventArgs e)
{
    TextBox1.Text = "";
    lblDisplay.Text = "";
}

}

```

Output

localh ×

+ − □ ×

← ↻ ⓘ localhost:58329/Default.aspx

Enter Number :

Reverse Number

Sum of digit of number

Reset

Reverse of 12345 is : 54321

localh ×

+ − □ ×

← ↻ ⓘ localhost:58329/Default.aspx

Enter Number :

Reverse Number

Sum of digit of number

Reset

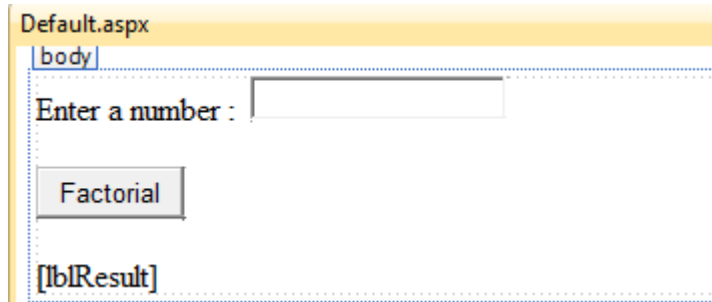
12345 is : 15

PRACTICAL 2

A] AIM: Create simple application to perform the following operations

i] Finding factorial value

Default.aspx[Design]



Default.aspx[Source]

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

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

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Enter a number :&nbsp;
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:Button ID="btnFact" runat="server" onclick="btnFact_Click"
                Text="Factorial" />
            <br />
            <br />
            <asp:Label ID="lblResult" runat="server"></asp:Labe>
        </div>
    </form>
</body>
</html>
```

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1

Label1	ID	lblResult
	Text	
Button1	ID	btnFact
	Text	Factorial

Default.aspx.cs

```

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

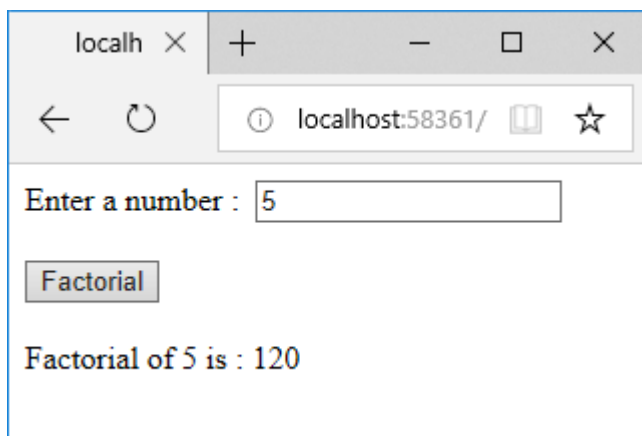
public partial class _Default : System.Web.UI.Page
{
    protected void btnFact_Click(object sender, EventArgs e)
    {
        int num, i, f = 1;
        num=Convert.ToInt32(TextBox1.Text);

        for (i = 1; i <= num; i++)
        {
            f = f * i;
        }

        lblResult.Text ="Factorial of "+TextBox1.Text+" is : "+ f.ToString();
    }
}

```

Output



ii] Money Conversion

Default.aspx[Design]

Default.aspx

body

Enter amount in Rupees :

US Dollars Euros British Pounds Japanese Yen

[lblResult]

Default.aspx[Source]

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

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Enter amount in Rupees :&nbsp;
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:Button ID="btnDollars" runat="server" onclick="btnDollars_Click"
                Text="US Dollars" />
            &nbsp;
            <asp:Button ID="btnEuro" runat="server" onclick="btnEuro_Click" Text="Euros" />
            &nbsp;
            <asp:Button ID="btnPounds" runat="server" onclick="btnPounds_Click"
                Text="British Pounds" />
            &nbsp;
            <asp:Button ID="btnYen" runat="server" onclick="btnYen_Click"
                Text="Japanese Yen" />
            <br />
            <br />
            <asp:Label ID="lblResult" runat="server"></asp:Label>
        </div>
    </form>
</body>
</html>
```

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
Label1	ID	lblResult
	Text	
Button1	ID	btnDollar
	Text	US Dollars
Button2	ID	btnEuro
	Text	Euros
Button3	ID	btnPounds
	Text	British Pounds
Button4	ID	btnYen
	Text	Japanese Yen

Default.aspx.cs

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

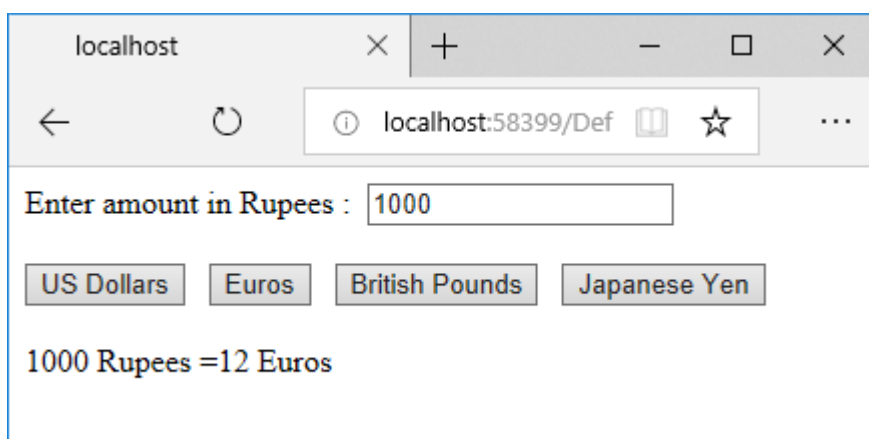
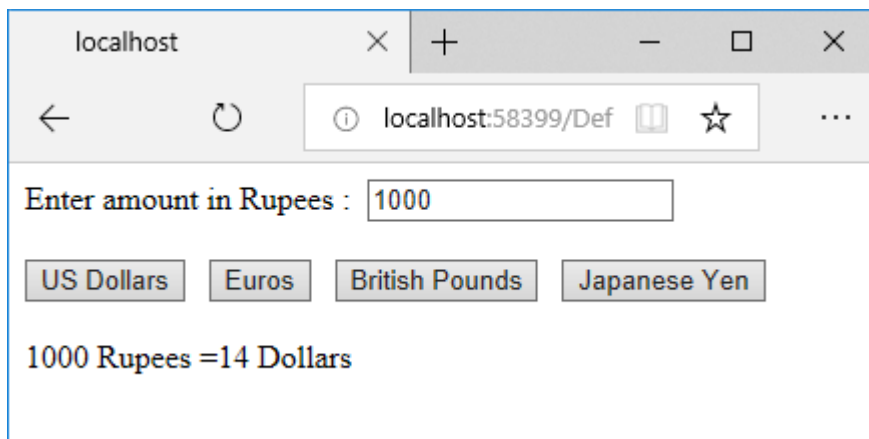
```
public partial class _Default : System.Web.UI.Page
{
    protected void btnDollars_Click(object sender, EventArgs e)
    {
        double r, dollar;
        r = Convert.ToDouble(TextBox1.Text);
        dollar = r * 0.014;
        lblResult.Text = TextBox1.Text + " Rupees =" + dollar.ToString() + " Dollars ";
    }
    protected void btnEuro_Click(object sender, EventArgs e)
    {
        double r, euro;
        r = Convert.ToDouble(TextBox1.Text);
        euro = r * 0.012;
        lblResult.Text = TextBox1.Text + " Rupees =" + euro.ToString() + " Euros ";
    }
    protected void btnPounds_Click(object sender, EventArgs e)
    {
        double r, pound;
        r = Convert.ToDouble(TextBox1.Text);
        pound = r * 0.011;
```

```

        lblResult.Text = TextBox1.Text + " Rupees =" + pound.ToString() + " British Pounds ";
    }
    protected void btnYen_Click(object sender, EventArgs e)
    {
        double r, yen;
        r = Convert.ToDouble(TextBox1.Text);
        yen = r * 1.55;
        lblResult.Text = TextBox1.Text + " Rupees =" + yen.ToString() + " Yen ";
    }
}

```

Output



localhost

×

+

−

□

×

←

↻

localhost:58399/Def

📖

☆

...

Enter amount in Rupees :

US Dollars

Euros

British Pounds

Japanese Yen

1000 Rupees =11 British Pounds

localhost

×

+

−

□

×

←

↻

localhost:58399/Def

📖

☆

...

Enter amount in Rupees :

US Dollars

Euros

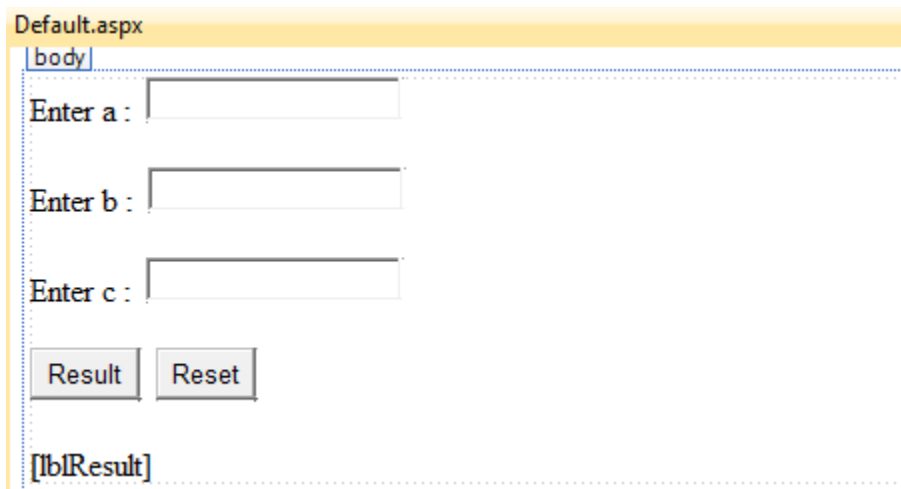
British Pounds

Japanese Yen

1000 Rupees =1550 Yen

iii] Quadratic Equation

Default.aspx[Design]



Default.aspx[Source]

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

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

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Enter a :&nbsp;
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <br /><br /> Enter b :&nbsp;
            <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <br /><br /> Enter c :&nbsp;
            <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
            <br /><br />
            <asp:Button ID="btnResult" runat="server" onclick="btnResult_Click"
                Text="Result" />&nbsp;
            <asp:Button ID="btnReset" runat="server" onclick="btnReset_Click"
                Text="Reset" />
            <br /><br />
            <asp:Label ID="lblResult" runat="server"></asp:Label>
        </div>
    </form>
</body>
```

</html>

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
TextBox2	ID	TextBox2
TextBox3	ID	TextBox3
Label1	ID	lblResult
	Text	
Button1	ID	btnResult
	Text	Result
Button2	ID	btnReset
	Text	Reset

Default.aspx.cs

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

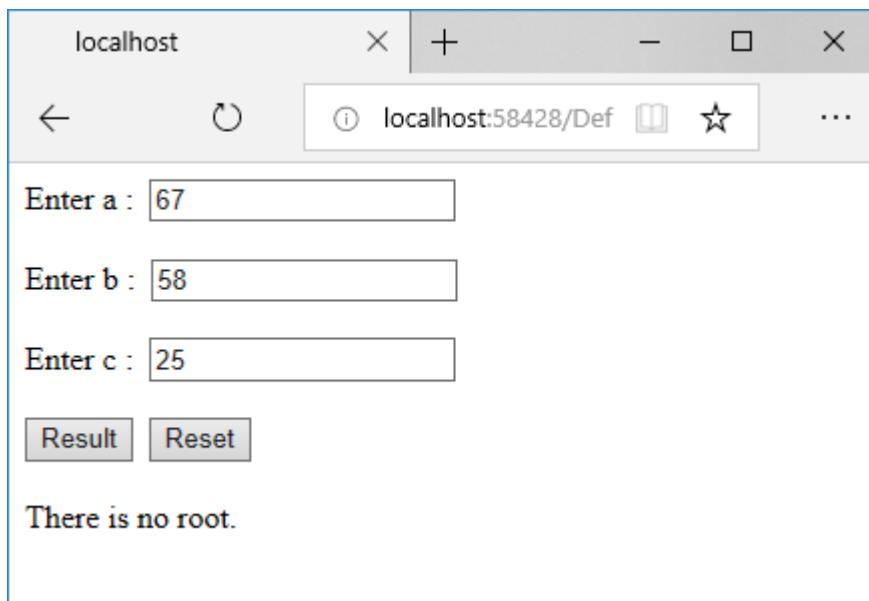
```
public partial class _Default : System.Web.UI.Page
{
    public void demo()
    {
        double a, b, c, r1, r2, x;
        double det;
        a = Convert.ToDouble(TextBox1.Text);
        b = Convert.ToDouble(TextBox2.Text);
        c = Convert.ToDouble(TextBox3.Text);
        det = (b * b) - (4 * a * c);
        if (det > 0)
        {
            x = Math.Sqrt(det);
            r1 = (-b + x) / (2 * a);
            r2 = (-b - x) / (2 * a);
            lblResult.Text = "There are two roots: " + r1.ToString() + " and " + r2.ToString();
        }
        else if (det == 0)
        {
            x = Math.Sqrt(det);
            r1 = (-b + x) / (2 * a);
            lblResult.Text = "There is only one root : " + r1.ToString();
        }
    }
}
```

```

        else
        {
            lblResult.Text = "There is no root.";
        }
    }
protected void btnResult_Click(object sender, EventArgs e)
{
    demo();
}
protected void btnReset_Click(object sender, EventArgs e)
{
    TextBox1.Text = "";
    TextBox2.Text="";
    TextBox3.Text="";
    lblResult.Text="";
}
}

```

Output



Default.aspx[Design]

The screenshot shows a web page titled "Default.aspx" with a yellow header. Below the header, there is a text input field labeled "body". The main content area contains two text labels: "Enter Value in Celsius :" and "Enter Value in Fahrenheit :". Each label is followed by a text input field. Below these input fields, there are three buttons: "Celsius to Fahrenheit", "Fahrenheit to Celsius", and "Reset". At the bottom of the page, there are two labels: "[lblResult1]" and "[lblResult2]".

Default.aspx[Source]

[illegible]

</html>

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
TextBox2	ID	TextBox2
Label1	ID	lblResult1
	Text	
Label2	ID	lblResult2
	Text	
Button1	ID	btnCtoF
	Text	Celsius to Fahrenheit
Button2	ID	btnFtoC
	Text	Fahrenheit to Celsius
Button3	ID	btnReset
	Text	Reset

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 class TempConv
{
    public double ctof(double temp)
    {
        temp = 9.0 / 5.0 * temp + 32;
        return temp;
    }
    public double ftoc(double temp)
    {
        temp = (temp - 32) * 5 / 9;
        return temp;
    }
}

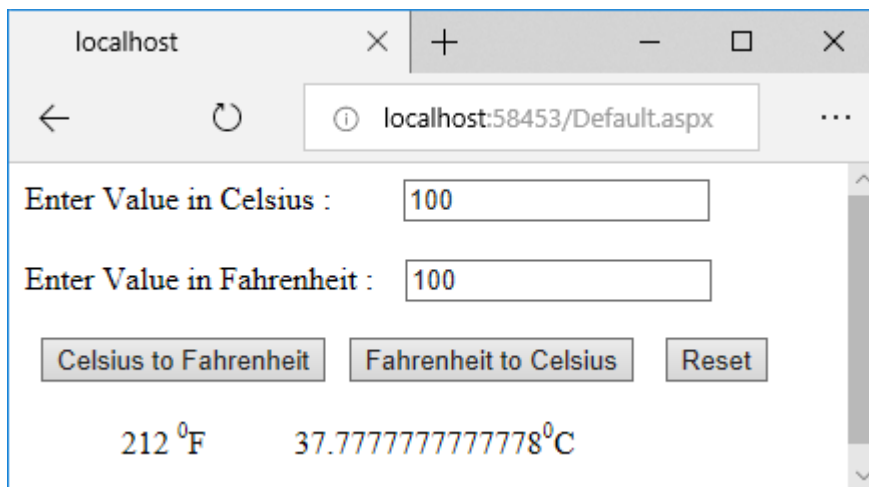
public partial class _Default : System.Web.UI.Page
{
    protected void btnCtoF_Click(object sender, EventArgs e)
    {
```

```

TempConv s = new TempConv();
double n = Convert.ToDouble(TextBox1.Text);
double x = s.ctof(n);
lblResult1.Text = x.ToString()+ " <sup>0</sup>F";
}
protected void btnFtoC_Click(object sender, EventArgs e)
{
    TempConv s = new TempConv();
    double n = Convert.ToDouble(TextBox2.Text);
    double x = s.ftoc(n);
    lblResult2.Text = x.ToString()+"<sup>0</sup>C";
}
protected void btnReset_Click(object sender, EventArgs e)
{
    TextBox1.Text = "";
    TextBox2.Text = "";
    lblResult1.Text = "";
    lblResult2.Text = "";
}
}

```

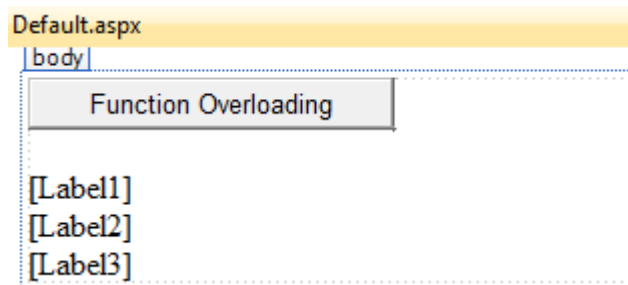
Output



B] AIM: Create simple application to demonstrate the use of following concepts.

i] Function Overloading

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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:Button ID="Button1" runat="server" onclick="Button1_Click"
                Text="Function Overloading" />
            <br />
            <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>

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

Properties

Control	Properties	Property Values
Label1	ID	Label1

	Text	
Label2	ID	Label2
	Text	
Label3	ID	Label3
	Text	
Button1	ID	Button1
	Text	Function Overloading

Default.aspx.cs

```

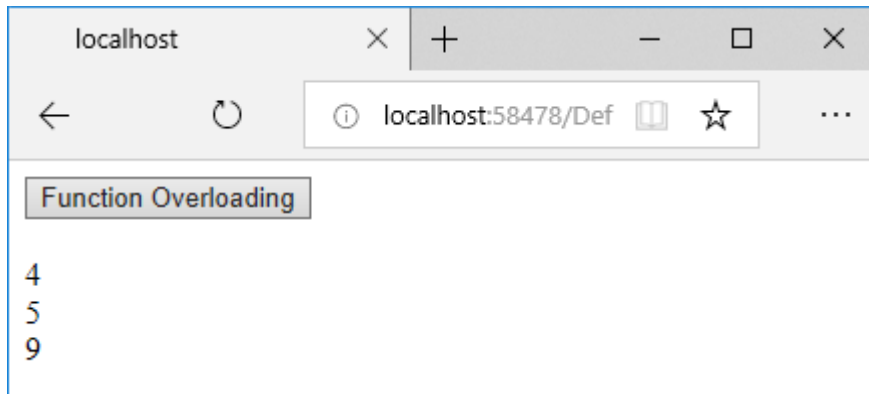
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class _Default : System.Web.UI.Page
{
    public int add(int a)
    {
        return a + a;
    }
    public int add(int a, int b)
    {
        return a + b;
    }
    public int add(int a, int b, int c)
    {
        return a + b + c;
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        int x, y, z;
        x = add(2);
        y = add(2, 3);
        z = add(2, 3, 4);
        Label1.Text = x.ToString();
        Label2.Text = y.ToString();
        Label3.Text = z.ToString();
    }
}

```

Output



ii] Inheritance (all types)

(1) Single Inheritance

Default.aspx[Design]



Default.aspx[Source]

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

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

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

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

```
Enter a number :
```

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

```
<br />
```

```
<asp:Button ID="btnResult" runat="server" onclick="btnResult_Click"
```

```
Text="Result" />
```

```
<br />
```

```
&nbsp;<asp:Label ID="Label1" runat="server"></asp:Label>
```

```
<br />
```

```

        &nbsp;<asp:Label ID="Label2" runat="server"></asp:Label>
    </div>
</form>
</body>
</html>

```

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
Label1	ID	Label1
	Text	
Label2	ID	Label2
	Text	
Button1	ID	btnResult
	Text	Result

Default.aspx.cs

```

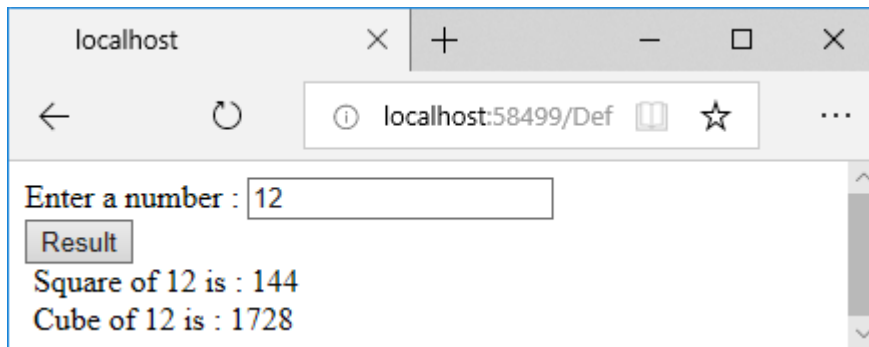
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public class A
{
    public int square(int val1)
    {
        return val1 * val1;
    }
}
public class B : A
{
    public int cube(int val1)
    {
        return val1 * val1 * val1;
    }
}
public partial class _Default : System.Web.UI.Page
{
    protected void btnResult_Click(object sender, EventArgs e)

```

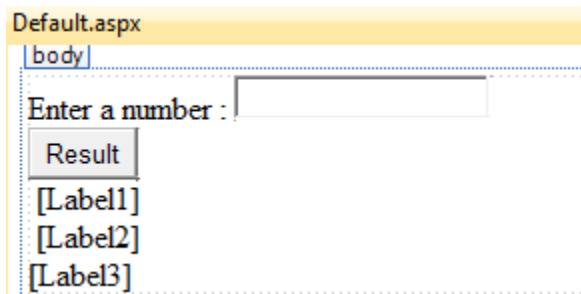
```
{  
    B obj = new B();  
    int n = Convert.ToInt32(TextBox1.Text);  
    int sq = obj.square(n);  
    int cu = obj.cube(n);  
    Label1.Text = "Square of " + n + " is : " + sq.ToString();  
    Label2.Text = "Cube of " + n + " is : " + cu.ToString();  
}
```

Output



(2) Multilevel Inheritance

Default.aspx[Design]



Default.aspx[Source]

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

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

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Enter a number :
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <br />
            <asp:Button ID="btnResult" runat="server" onclick="btnResult_Click"
                Text="Result" />
            <br />
            &nbsp;<asp:Label ID="Label1" runat="server"></asp:Label>
            <br />
            &nbsp;<asp:Label ID="Label2" runat="server"></asp:Label>
            <br />
            <asp:Label ID="Label3" runat="server"></asp:Label>
        </div>
    </form>
</body>
</html>
```

Properties

Control	Properties	Property Values
---------	------------	-----------------

TextBox1	ID	TextBox1
Label1	ID	Label1
	Text	
Label2	ID	Label2
	Text	
Label3	ID	Label3
	Text	
Button1	ID	btnResult
	Text	Result

Default.aspx.cs

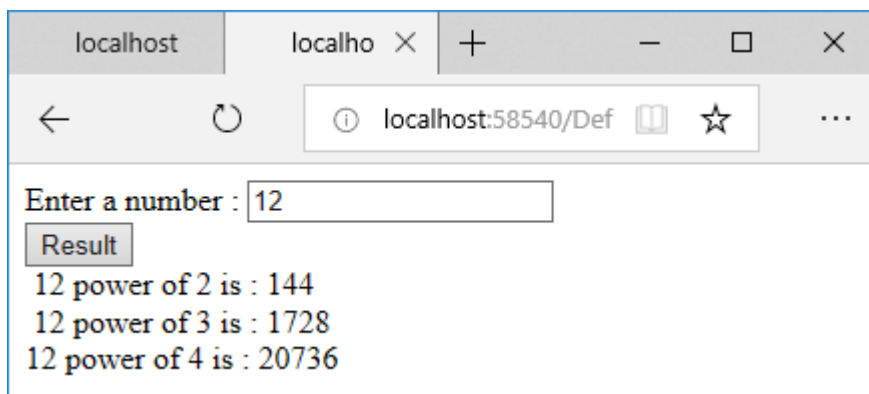
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
```

```
public class A
{
    public int pow2(int val1)
    {
        return val1 * val1;
    }
}
public class B : A
{
    public int pow3(int val1)
    {
        return val1 * val1 * val1;
    }
}
public class C : B
{
    public int pow4(int val1)
    {
        return val1 * val1 * val1*val1;
    }
}
```

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

```
protected void btnResult_Click(object sender, EventArgs e)
{
    C obj = new C();
    int n = Convert.ToInt32(TextBox1.Text);
    int x = obj.pow2(n);
    int y = obj.pow3(n);
    int z = obj.pow4(n);
    Label1.Text = n + " power of 2 is : " + x.ToString();
    Label2.Text = n + " power of 3 is : " + y.ToString();
    Label3.Text = n + " power of 4 is : " + z.ToString();
}
}
```

Output



Default.aspx[Design]

[illegible]

</html>

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
TextBox2	ID	TextBox2
Label1	ID	Label1
	Text	
Label2	ID	Label2
	Text	
Button1	ID	btnResult
	Text	Result

Default.aspx.cs

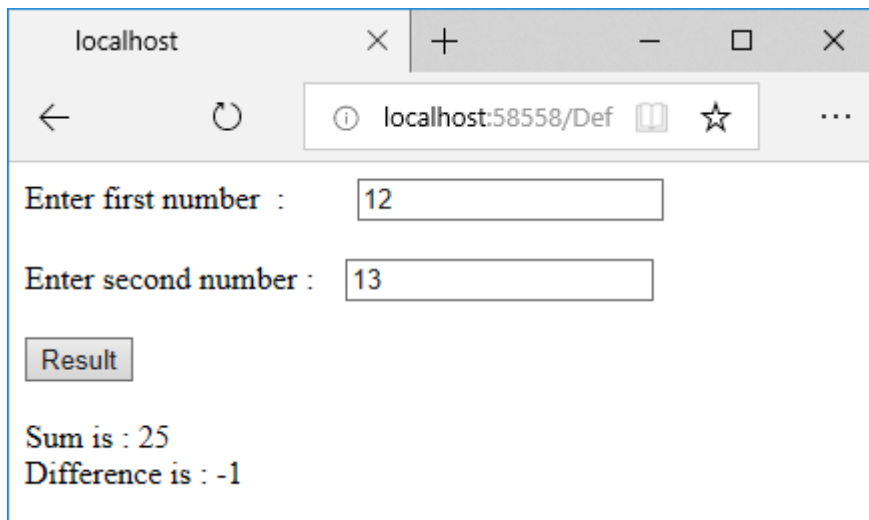
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
```

```
public class A
{
    public int a, b;
}
public class B : A
{
    public int add(int val1,int val2)
    {
        a=val1;
        b = val2;
        return a + b;
    }
}
public class C : A
{
    public int sub(int val1,int val2)
    {
        a = val1;
        b = val2;
        return a-b;
    }
}
```



```
public partial class _Default : System.Web.UI.Page
{
    protected void btnResult_Click1(object sender, EventArgs e)
    {
        B obj1 = new B();
        C obj2 = new C();
        int m = Convert.ToInt32(TextBox1.Text);
        int n = Convert.ToInt32(TextBox2.Text);
        int x = obj1.add(m, n);
        int y = obj2.sub(m, n);
        Label1.Text = "Sum is : " + x.ToString();
        Label2.Text = "Difference is : " + y.ToString();
    }
}
```

Output



localhost

localhost:58558/Def

Enter first number : 12

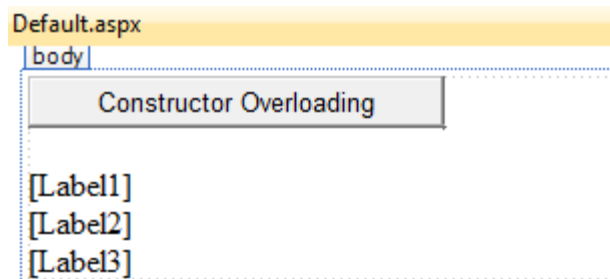
Enter second number : 13

Result

Sum is : 25
Difference is : -1

iii] Constructor Overloading

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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:Button ID="Button1" runat="server" onclick="Button1_Click"
                Text="Constructor Overloading" />
            <br />
            <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>
        </div>
    </form>
</body>
</html>
```

Properties

Control	Properties	Property Values
Label1	ID	Label1
	Text	
Label2	ID	Label2

	Text	
Label3	ID	Label3
	Text	
Button1	ID	Button1
	Text	Constructor Overloading

Default.aspx.cs

```

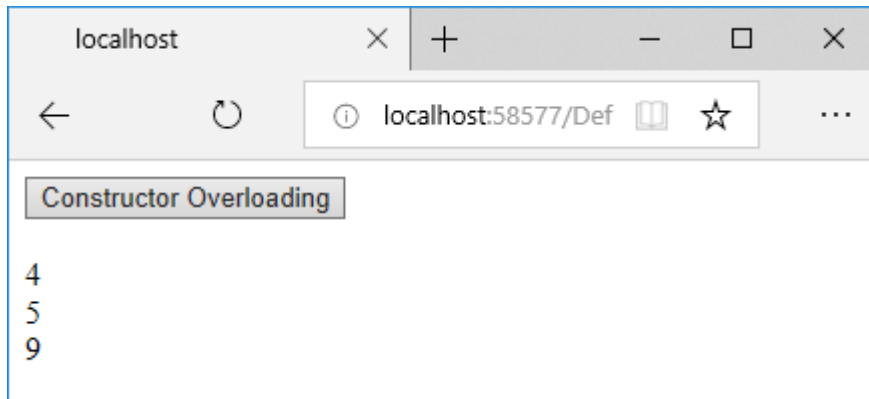
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public class Add
{
    public int r;
    public Add(int a)
    {
        r = a + a;
    }
    public Add(int a, int b)
    {
        r = a + b;
    }
    public Add(int a, int b, int c)
    {
        r = a + b + c;
    }
}

public partial class _Default : System.Web.UI.Page
{
    protected void Button1_Click(object sender, EventArgs e)
    {
        Add obj1 = new Add(2);
        Add obj2 = new Add(2, 3);
        Add obj3 = new Add(2, 3, 4);
        Label1.Text = obj1.r.ToString();
        Label2.Text = obj2.r.ToString();
        Label3.Text = obj3.r.ToString();
    }
}

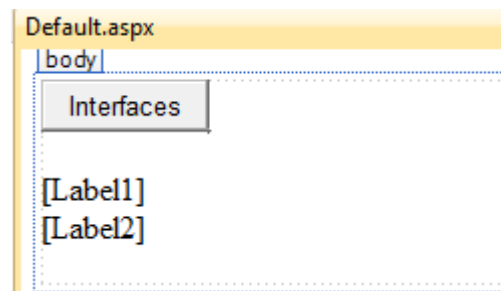
```

Output



iv] Interfaces

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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:Button ID="Button1" runat="server" onclick="Button1_Click"
        Text="Interfaces" />
      <br />
      <br />
      <asp:Label ID="Label1" runat="server"></asp:Label>
      <br />
      <asp:Label ID="Label2" runat="server"></asp:Label>
      <br />
    </div>
  </form>
</body>
```

```

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

```

Properties

Control	Properties	Property Values
Label1	ID	Label1
	Text	
Label2	ID	Label2
	Text	
Button1	ID	Button1
	Text	Interfaces

Default.aspx.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
interface Area
{
    double show(double s, double t);
}
class Rect : Area
{
    public double show(double s, double t)
    {
        return s * t;
    }
}
class Circle : Area
{
    public double show(double r, double t)
    {
        return (3.14* r*r);
    }
}
public partial class _Default : System.Web.UI.Page
{
    protected void Button1_Click(object sender, EventArgs e)
    {
        Rect r1=new Rect();
        double x=r1.show(3,4);
    }
}

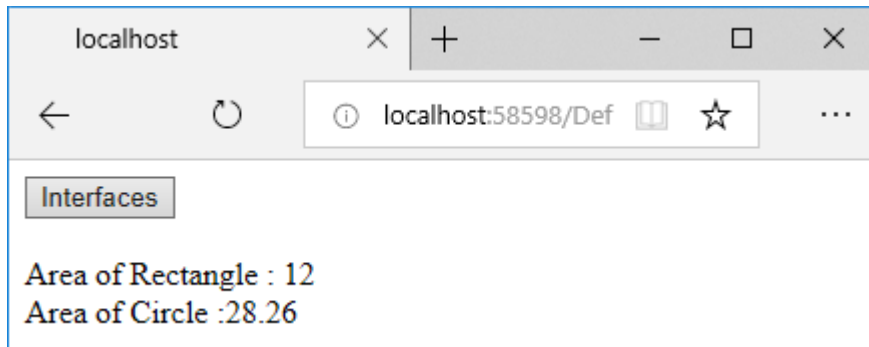
```

```

        Circle c1=new Circle();
        double y=c1.show(3,4);
        Label1.Text="Area of Rectangle : "+x.ToString();
        Label2.Text="Area of Circle : "+y.ToString();
    }
}

```

Output



C] AIM: Create simple application to demonstrate the use of following concepts.

i] Using Delegates and Events

Default.aspx[Design]



Default.aspx[Source]

```

<% @ 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:Button ID="Button1" runat="server" onclick="Button1_Click"

```

```

        style="height: 26px" Text="Display" />
&nbsp;
        <br />
        <asp:Label ID="Label1" runat="server"></asp:Label>
        <br />
        <asp:Label ID="Label2" runat="server"></asp:Label>

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

```

Properties

Control	Properties	Property Values
Label1	ID	Label1
	Text	
Label2	ID	Label2
	Text	
Button1	ID	Button1
	Text	Display

Default.aspx.cs

```

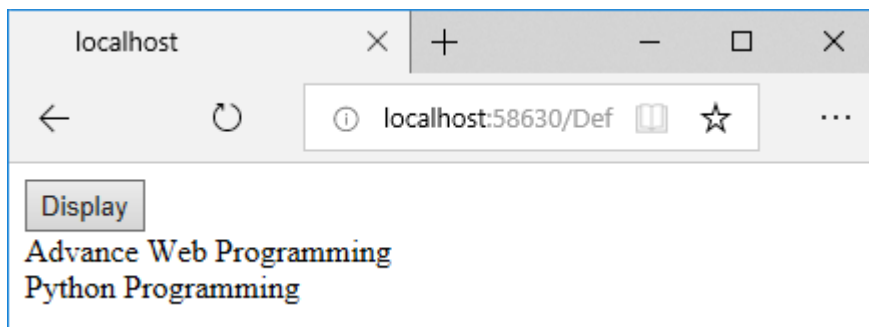
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class _Default : System.Web.UI.Page
{
    public delegate string dele();
    public static string display1()
    {
        string s1 = "Advance Web Programming";
        return s1;
    }
    public static string display2()
    {
        string s2 = "Python Programming";
        return s2;
    }
}

```

```
protected void Button1_Click(object sender, EventArgs e)
{
    dele d1 = new dele(display1);
    d1();
    dele d2 = new dele(display2);
    d2();
    Label1.Text = d1();
    Label2.Text = d2();
}
}
```

Output



ii] Exception Handling

Default.aspx[Design]

Default.aspx

body

Enter a number :

Result

[Label1]

Default.aspx[Source]

```
<% @ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      Enter a number :
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
      <br />
      <br />
      <asp:Button ID="btnResult" runat="server" onclick="btnResult_Click"
        Text="Result" />
      <br />
      <br />
      <asp:Label ID="Label1" runat="server"></asp:Label>
    </div>
  </form>
</body>
</html>
```

Properties

Control	Properties	Property Values
Label1	ID	Label1
	Text	

Button1	ID	btnResult
	Text	Result
TextBox1	ID	TextBox1

Default.aspx.cs

```

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

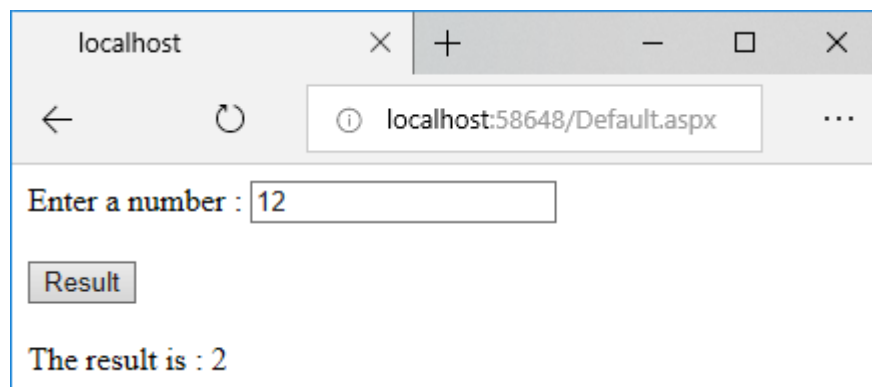
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void btnResult_Click(object sender, EventArgs e)
    {
        try
        {
            int a = Convert.ToInt32(TextBox1.Text);
            int[] b = { 12, 23, 33 };
            int result;
            result = (b[2] / a);
            Label1.Text = "The result is : " + result.ToString();
        }
        catch (System.DivideByZeroException ex)
        {
            Label1.Text = ex.ToString();
        }
        catch (System.IndexOutOfRangeException ex)
        {
            Label1.Text = ex.ToString();
        }
    }
}

```

Output



PRACTICAL 3

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

Default.aspx[Design]

The screenshot shows the Design view of a web page titled 'Default.aspx'. The page contains a form with the following elements:

- A label 'Enter name :' followed by a text box.
- A label 'Enter rollno :' followed by a text box.
- A label 'Select Class :' followed by three radio buttons labeled 'FY', 'SY', and 'TY'.
- A label 'Select Course:' followed by a dropdown menu with the text '---Select Course---' and a downward arrow.
- A 'Submit' button.
- A label '[Label1]' at the bottom.

Default.aspx[Source]

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

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

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

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

```
Enter name :&nbsp;
```

```
<asp:TextBox ID="txtName" runat="server"></asp:TextBox>
```

```
<br /><br />
```

```
Enter rollno :&nbsp;
```

```
<asp:TextBox ID="txtRoll" runat="server"></asp:TextBox>
```

```
<br /><br />
```

```
Select Class :&nbsp;
```

```
<asp:RadioButton ID="RadioButton1" runat="server" GroupName="Class" Text="FY"/>
```

```
<asp:RadioButton ID="RadioButton2" runat="server" GroupName="Class" Text="SY" />  
&nbsp;&nbsp;&nbsp;
```

```
<asp:RadioButton ID="RadioButton3" runat="server" GroupName="Class" Text="TY" />
```

Select Course:

<asp:ListItem>---Select Course---</asp:ListItem>

`<asp:ListItem>B.Sc</asp:ListItem>`

</html>

Control	Properties	Property Values
Label1	ID	Label1
	Text	
TextBox1	ID	txtName
TextBox2	ID	txtRoll
RadioButton1	ID	RadioButton1
	Text	FY
	GroupName	Class
RadioButton1	ID	RadioButton2
	Text	SY
	GroupName	Class
RadioButton1	ID	RadioButton3
	Text	TY
	GroupName	Class
DropDownList1	ID	DropDownList1
	AutoPostBack	True

Button1	ID	Button1
	Text	Submit

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 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;
        }
        Label1.Text += " in " + s;
    }

    protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
    {
        Label1.Text = " You have been enrolled in : " + DropDownList1.SelectedItem;
    }
}

```

Output

localhost

localhost:58669/Def

Enter name :

Enter rollno :

Select Class : ☐ FY ☐ SY ☒ TY

Select Course:

You have been enrolled in : B.Sc(I.T)

B] Demonstrate the use of Calendar control to perform following operations.

- a) Display messages in a calendar control**
- b) Display vacation in a calendar control**
- c) Selected day in a calendar control using style**
- d) Difference between two calendar dates**

Default.aspx[Design]

Default.aspx X

13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

[Label1]
[Label2]
[Label3]
[Label4]
[Label5]

Result Reset

Default.aspx[Source]

```
<% @ 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:Calendar ID="Calendar1" runat="server" BackColor="#FFFFCC"
BorderColor="#FFCC66" BorderStyle="Solid" BorderWidth="1px"
```


	NextPrevStyle	
	BorderStyle	Solid
	BorderWidth	2
	ForeColor	#FFFFCC
	Font-Size	9
	OtherMonthDayStyle	
	BackColor	#FFCC99
	ForeColor	#CC9966
	BorderStyle	Solid
	SelectedDayStyle	
	BackColor	Red
	Font-Bold	True
	SelectorStyle	
	BackColor	#FFCC66
	TitleStyle	
	BackColor	#990000
	ForeColor	#FFFFCC
	Font-Bold	True
	Font-Size	9
	TodayDayStyle	
	BackColor	#FFCC66
	ForeColor	White
	WeekendDayStyle	
	Height	50
	OnDayRender	Calendar1_DayRender
Label1	ID	Label1
	Text	
Label2	ID	Label2
	Text	
Label3	ID	Label3
	Text	
Label4	ID	Label4
	Text	
Label5	ID	Label5
	Text	
Button1	ID	btnResult
	Text	Result
Button2	ID	btnReset
	Text	Reset

--	--	--

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 Calendar1_SelectionChanged(object sender, EventArgs e)
    {
        Label1.Text = "Your Selected Date: " +
        Calendar1.SelectedDate.Date.ToShortDateString();
    }

    protected void btnResult_Click(object sender, EventArgs e)
    {
        Calendar1.Caption = "TYIT";
        Calendar1.FirstDayOfWeek = FirstDayOfWeek.Sunday;
        Calendar1.NextPrevFormat = NextPrevFormat.ShortMonth;
        Calendar1.TitleFormat = TitleFormat.Month;

        Label2.Text = "Todays Date" + Calendar1.TodaysDate.ToShortDateString();
        Label3.Text = "Ganapati Vacation Start: 9-13-2018";
        TimeSpan d = new DateTime(2018, 9, 13) - DateTime.Now;
        Label4.Text = "Days Remaining For Ganpati Vacation: " + d.Days.ToString();
        TimeSpan d1 = new DateTime(2018, 12, 31) - DateTime.Now;
        Label5.Text = "Days Remaining for New Year: " + d1.Days.ToString();
        if (Calendar1.SelectedDate.ToShortDateString() == "9-13-2018")
        {
            Label3.Text = "<b>Ganpati Festival Start</b>";
        }
        if (Calendar1.SelectedDate.ToShortDateString() == "9-23-2018")
        {
            Label3.Text = "<b>Ganpati Festival End</b>";
        }
    }
}

```

```

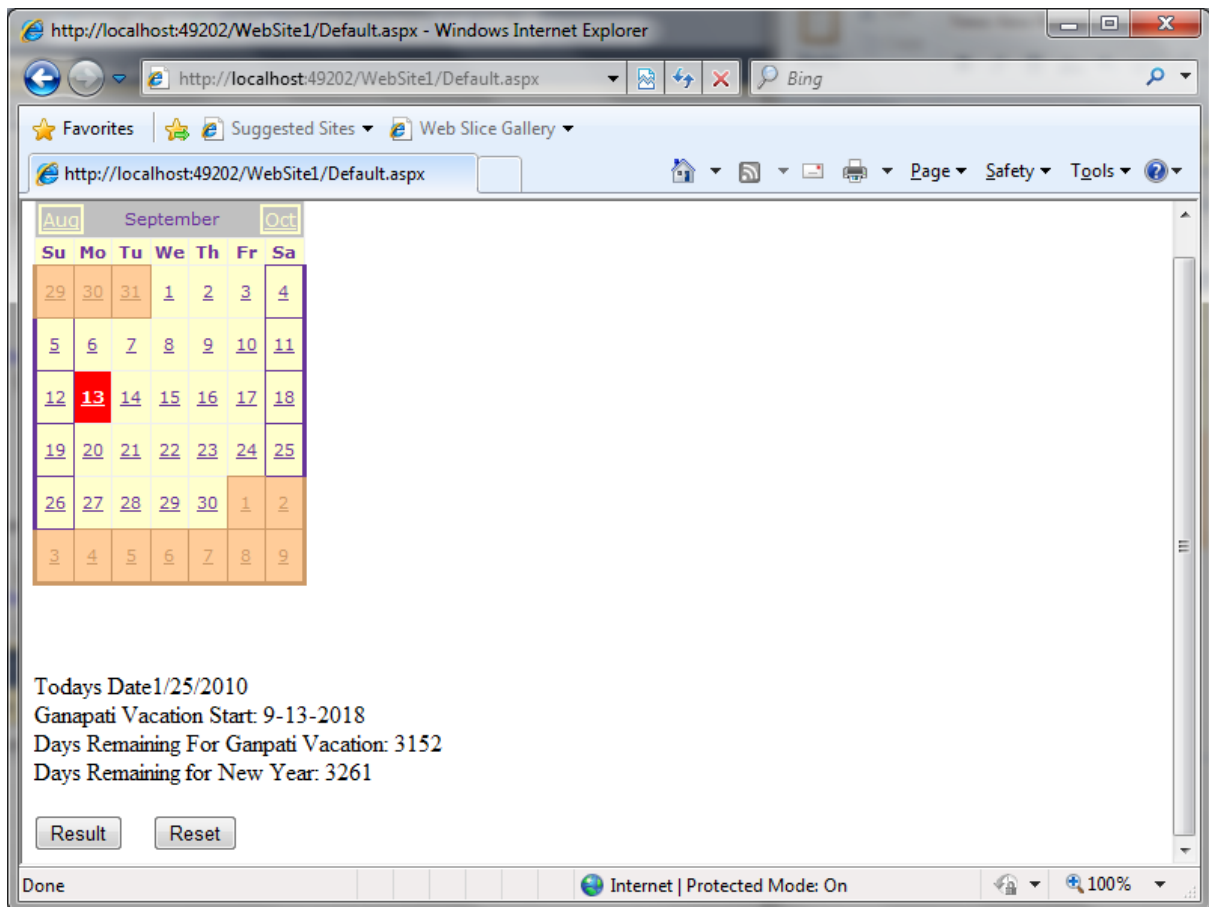
    }
protected void btnReset_Click(object sender, EventArgs e)
{
    Label1.Text = "";
    Label2.Text = "";
    Label3.Text = "";
    Label4.Text = "";
    Label5.Text = "";
    Calendar1.SelectedDates.Clear();

}

protected void Calendar1_DayRender(object sender,
System.Web.UI.WebControls.DayRenderEventArgs e)
{
    if (e.Day.Date.Day == 5 &&e.Day.Date.Month == 9)
    {
        e.Cell.BackColor = System.Drawing.Color.Yellow;
        Label lbl = new Label();
        lbl.Text = "<br>Teachers Day!";
        e.Cell.Controls.Add(lbl);
    }
    if (e.Day.Date.Day == 13 &&e.Day.Date.Month == 9)
    {
        Calendar1.SelectedDate = new DateTime(2018, 9, 12);
        Calendar1.SelectedDates.SelectRange(Calendar1.SelectedDate,
        Calendar1.SelectedDate.AddDays(10));
        Label lbl1 = new Label();
        lbl1.Text = "<br>Ganpati!";
        e.Cell.Controls.Add(lbl1);
    }
}
}

```

Output:



PRACTICAL 4

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

Default.aspx[Design]

Default.aspx

body

Enter your name : Please enter your name

Enter Age : Not a valid age

Enter Password :

Re-enter Password : Please re-enter password

Enter Email-Id : Enter valid email address

Enter text : The text must be 8 characters long

[IbDisplay]

Your page contains the following errors

- Error message 1.
- Error message 2.

Default.aspx[Source]

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

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

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

Enter your name : &

[illegible]

```

        ControlToValidate="txtData" ErrorMessage="The text must be 8 characters long"
        ForeColor="Red"
OnServerValidate="vldCode_ServerValidate"></asp:CustomValidator>
    <br />
    <br />
    <asp:Button ID="btnValidate" runat="server" onclick="btnValidate_Click"
        Text="Validate" />
    <br />
    <br />
    <asp:Label ID="lblDisplay" runat="server"></asp:Label>
    <br />
    <br />
    <asp:ValidationSummary ID="ValidationSummary1" runat="server" ForeColor="Red"
        HeaderText="Your page contains the following errors" ShowMessageBox="True"
        ShowSummary="False" />

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

```

Properties

Control	Properties	Property Values
Label1	ID	lblDisplay
	Text	
TextBox1	ID	txtName
TextBox2	ID	txtAge
TextBox3	ID	txtPassword
TextBox4	ID	txtConfirm
TextBox5	ID	txtEmail
TextBox6	ID	txtData
Button1	ID	btnValidate
	Text	Validate
RequiredFieldValidator	ID	RequiredFieldValidator1
	ErrorMessage	Please enter your name
	ControlToValidate	txtName
	ForeColor	Red
RangeValidator	ID	RangeValidator 1
	ErrorMessage	Not a valid age
	ControlToValidate	txtAge
	MaximumValue	50
	MinimumValue	18
	Type	Integer
	ForeColor	Red
CompareValidator	ID	CompareValidator1
	ErrorMessage	Please re-enter password

	ControlToValidate	txtConfirm
	ControlToCompare	txtPassword
	ForeColor	Red
RegularExpressionValidator	ID	RegularExpressionValidator1
	ErrorMessage	Enter valid email address
	ControlToValidate	txtEmail
	ValidationExpression	Internet email address
	ForeColor	Red
CustomValidator	ID	CustomValidator1
	ErrorMessage	The text must be 8 characters long
	ControlToValidate	txtData
	ForeColor	Red
ValidationSummary	ID	ValidationSummary1
	HeaderText	Your page contains the following errors
	ShowMessageBox	True
	ShowSummary	False
	ForeColor	Red

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)
    {
        txtName.Focus();
    }

    protected void btnValidate_Click(object sender, EventArgs e)
    {
        if (Page.IsValid)
        {
            lblDisplay.Text = "This is a valid form";
        }
        else
        {
            lblDisplay.Text = "The text must be 8 characters long";
        }
    }
    protected void vldCode_ServerValidate(object sender, ServerValidateEventArgs e)
    {

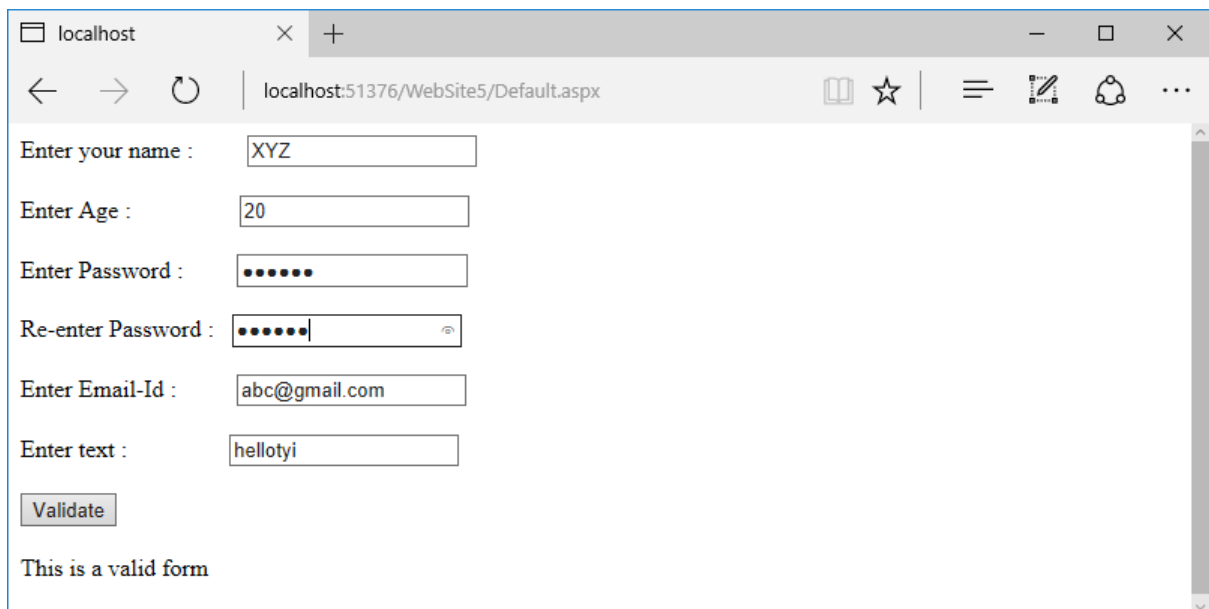
```

```

        if (e.Value.Length == 8)
        {
            e.IsValid = true;
        }
        else
        {
            e.IsValid = false;
        }
    }
}

```

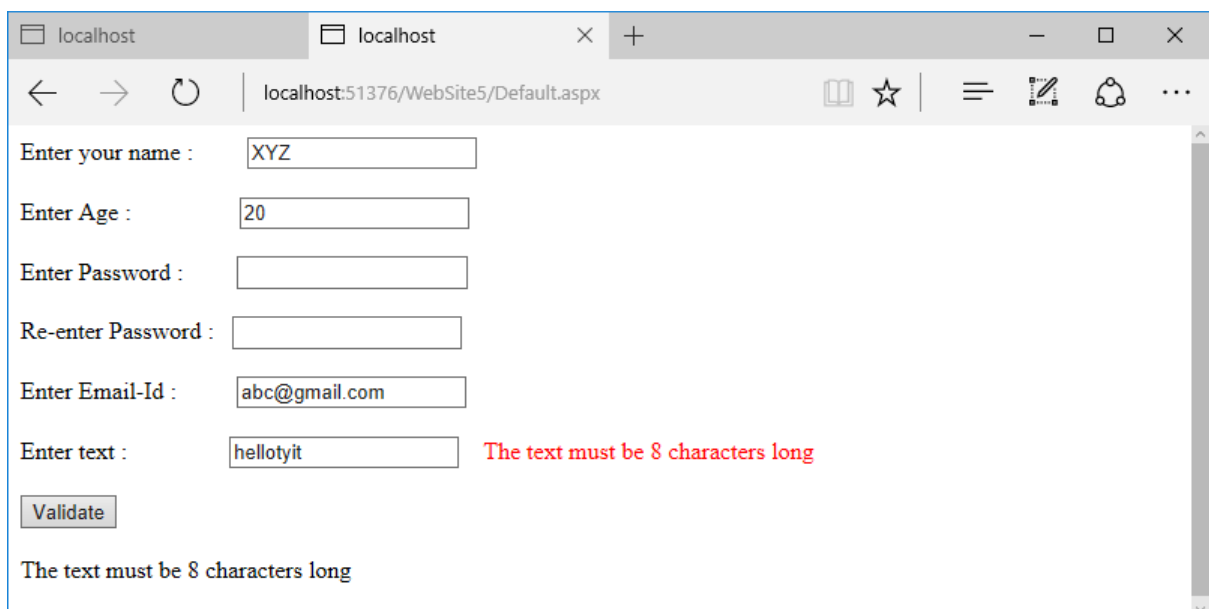
Output:



A screenshot of a web browser window at localhost:51376/WebSite5/Default.aspx. The form contains the following fields and values:

- Enter your name : XYZ
- Enter Age : 20
- Enter Password : [masked with dots]
- Re-enter Password : [masked with dots]
- Enter Email-Id : abc@gmail.com
- Enter text : helloty

Below the fields is a "Validate" button. The message "This is a valid form" is displayed at the bottom.



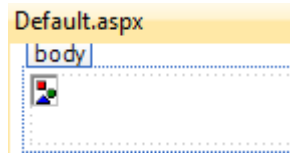
A screenshot of a web browser window at localhost:51376/WebSite5/Default.aspx. The form contains the following fields and values:

- Enter your name : XYZ
- Enter Age : 20
- Enter Password : [empty]
- Re-enter Password : [empty]
- Enter Email-Id : abc@gmail.com
- Enter text : helloty

Below the fields is a "Validate" button. A red error message "The text must be 8 characters long" is displayed next to the text field. The message "The text must be 8 characters long" is also displayed at the bottom of the form.

B] Create a Web Form to demonstrate use of Adrotator control

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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:AdRotator ID="AdRotator1" runat="server" AdvertisementFile="~/Advs.xml" />
            <br /><br />
        </div>
    </form>
</body>
</html>
```

Advs.xml[Advertisement File]

```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
    <Ad>
        <ImageUrl>Penguin.png</ImageUrl>
        <NavigateUrl>http://www.google.com</NavigateUrl>
        <AlternateText>Birds</AlternateText>
        <Impressions>1</Impressions>
        <Keyword>Photo</Keyword>
    </Ad>
    <Ad>
        <ImageUrl>Pikachu.png</ImageUrl>
        <NavigateUrl>http://www.facebook.com</NavigateUrl>
```

```

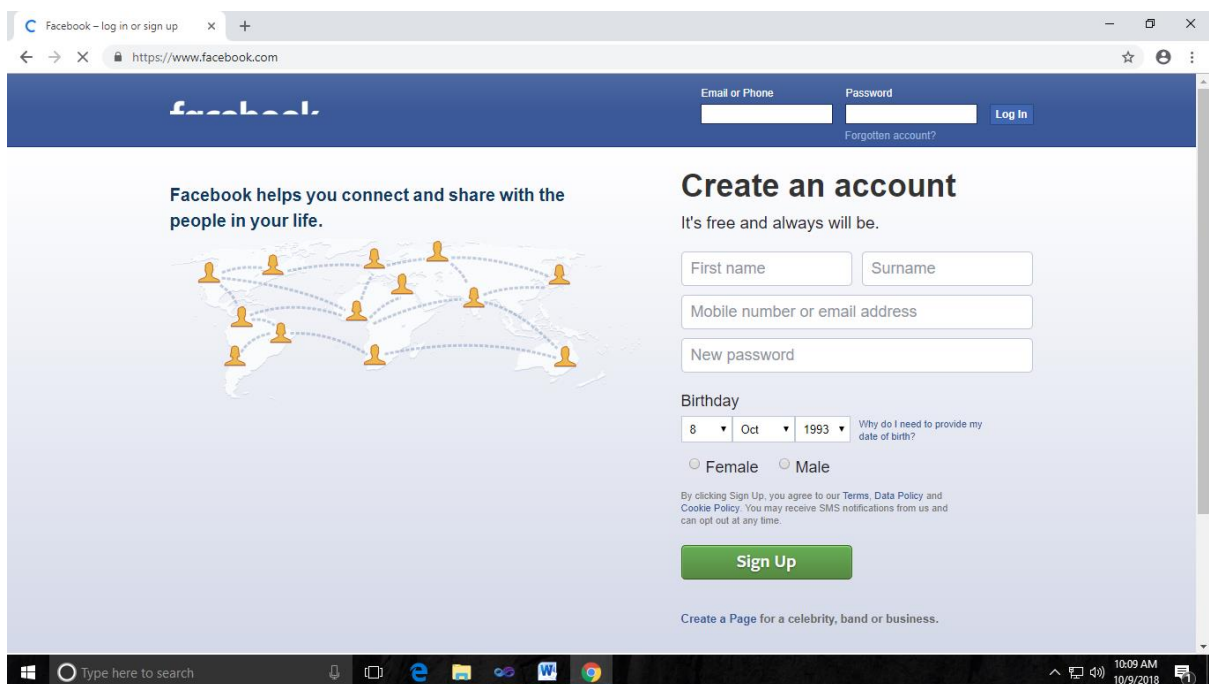
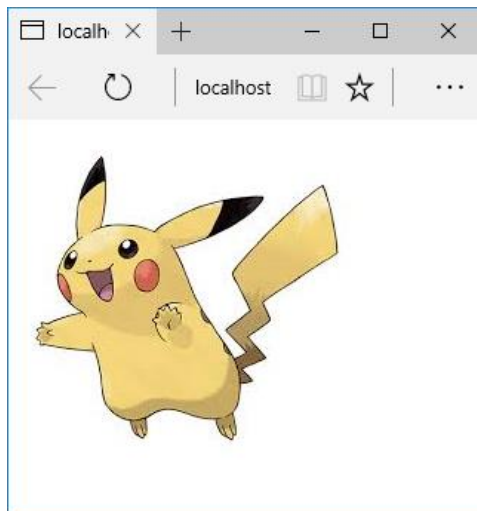
<AlternateText>Flowers</AlternateText>
<Impressions>2</Impressions>
<Keyword>Photo</Keyword>
</Ad>
</Advertisements>

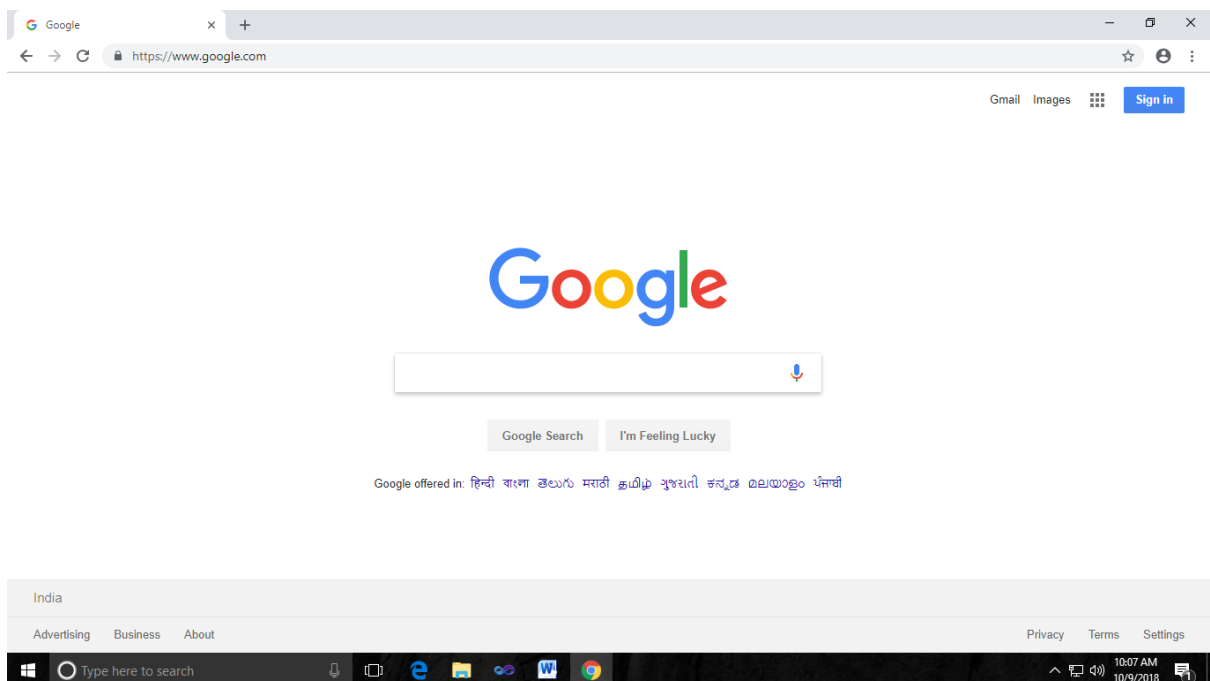
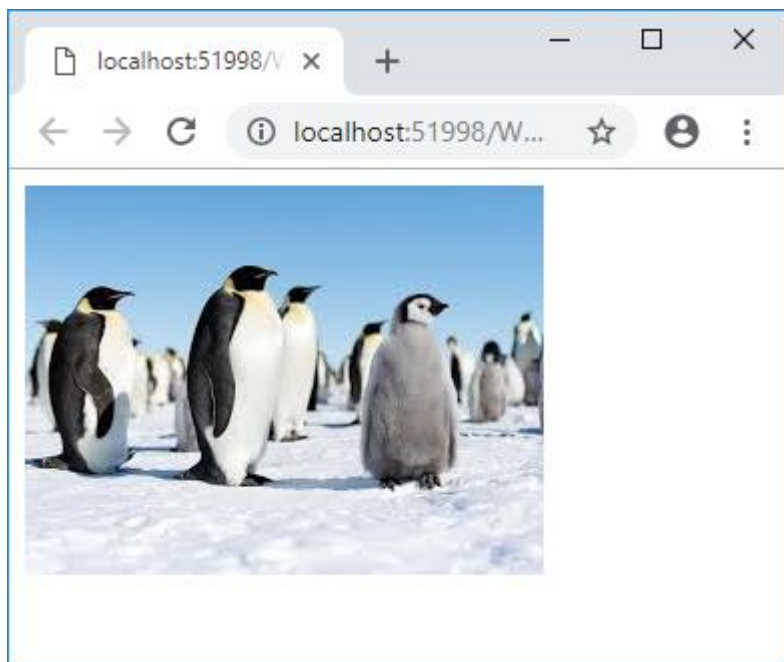
```

Properties

Control	Properties	Property Values
AdRotator	ID	AdRotator1
	AdvertisementFile	Advs.xml

Output

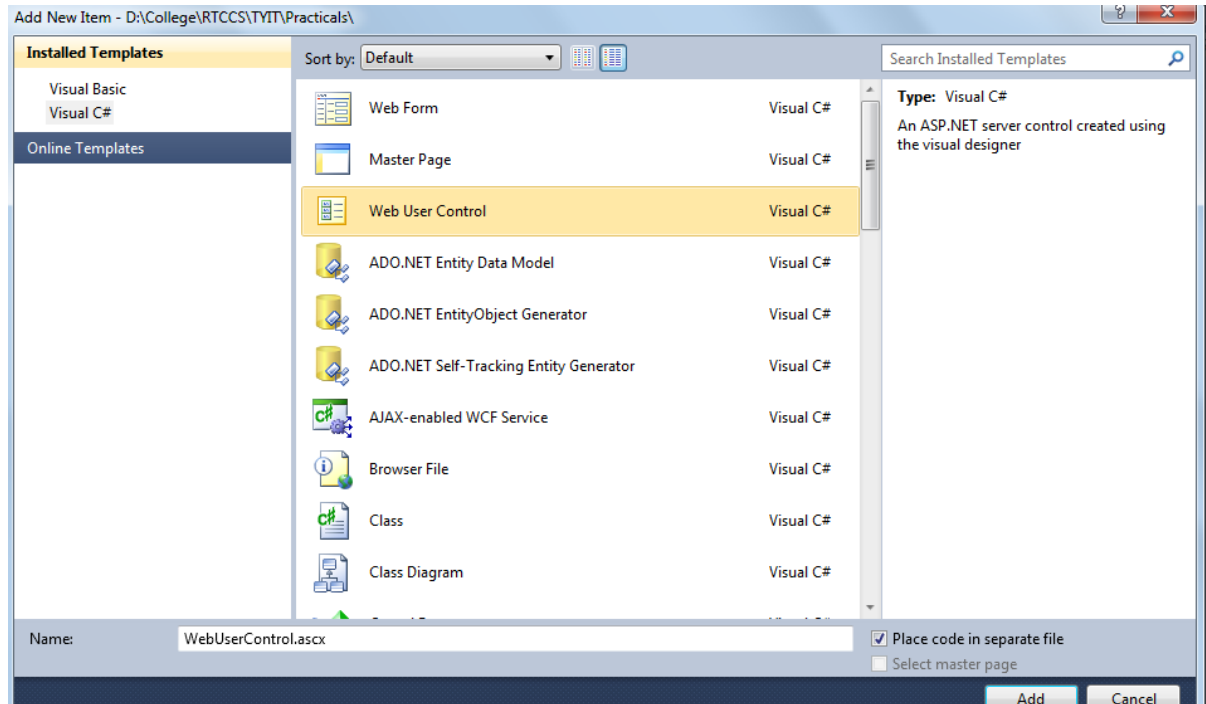




CJ Create a Web Form to demonstrate User Controls.

Add Web User Control

Website->Add New Item->Web User Control and Name it 'MyUserControl'



MyUserControl.ascx[Source]

```
<% @ Control Language="C#" AutoEventWireup="true"
CodeFile="MyUserControl.ascx.cs" Inherits="MyUserControl" %>
<h3> This is User Control</h3>
<table>
<tr>
<td>Name :</td>
<td>
<asp:TextBox ID="txtName" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td>City :</td>
<td>
<asp:TextBox ID="txtCity" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
```

```

<td></td>
<td>
    <asp:Button ID="btnSave" runat="server" Text="Save" onclick="btnSave_Click" /></td>
</tr>

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

```

MyUserControl.ascx.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 MyUserControl : System.Web.UI.UserControl
{
    protected void btnSave_Click(object sender, EventArgs e)
    {
        Label1.Text = "Your Name is :" + txtName.Text + " and you are from " + txtCity.Text;
    }
}

```

Default.aspx[Source]

```

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<%@ Register Src="~/MyUserControl.ascx" TagPrefix="uc" TagName="Student"
%>

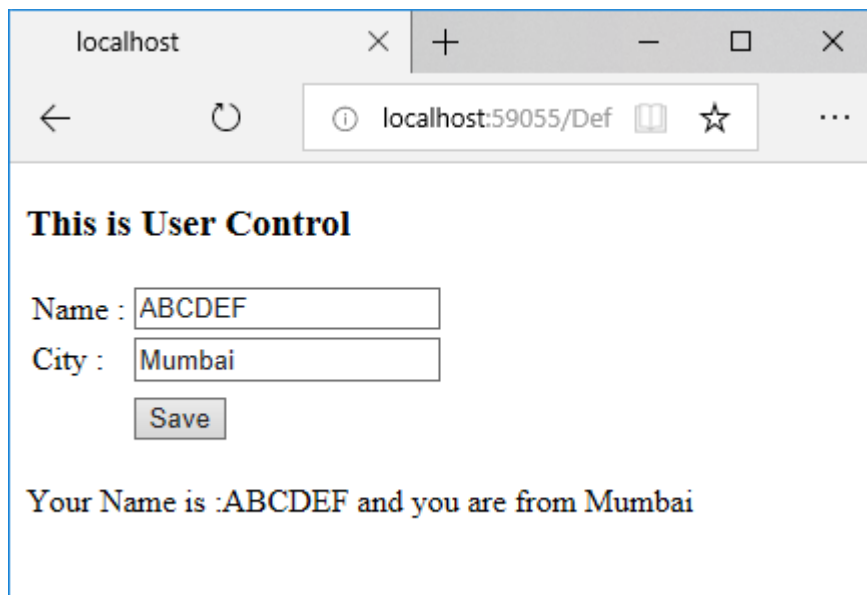
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

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

```

Output:-



The screenshot shows a web browser window with the title 'localhost'. The address bar displays 'localhost:59055/Def' with a refresh button, a star icon, and a menu icon. The main content area has the heading 'This is User Control'. Below the heading, there are two text input fields: 'Name : ABCDEF' and 'City : Mumbai'. A 'Save' button is positioned below the 'City' field. At the bottom of the form, a message reads 'Your Name is :ABCDEF and you are from Mumbai'.

This is User Control

Name :

City :

Your Name is :ABCDEF and you are from Mumbai

PRACTICAL 5

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

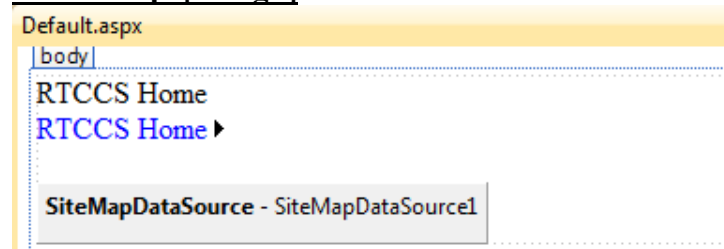
Add Site Map File

Website-> Add New Item-> Site Map and name it 'Web.sitemap'

Web.sitemap

```
<?xml version="1.0" encoding="utf-8" ?>
<siteMapxmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
<siteMapNodeurl="Default.aspx" title="RTCCS Home" description="">
<siteMapNodeurl="FYIT.aspx" title="FYIT" description="" />
<siteMapNodeurl="SYIT.aspx" title="SYIT" description="" />
<siteMapNodeurl="TYIT.aspx" title="TYIT" description="" />
</siteMapNode>
</siteMap>
```

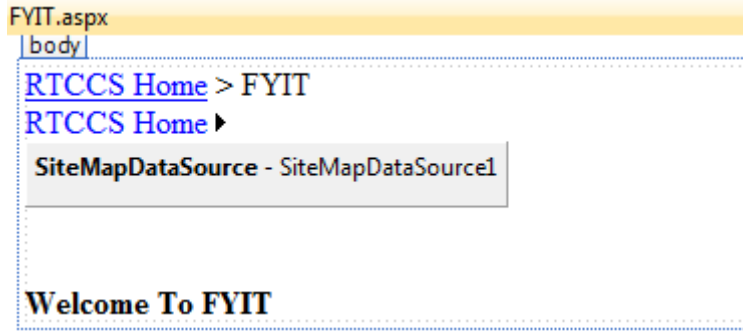
Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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:SiteMapPath ID="SiteMapPath1" runat="server">
</asp:SiteMapPath>
<br />
<asp:Menu ID="Menu1" runat="server" DataSourceID="SiteMapDataSource1">
</asp:Menu>
<br />
<asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" />
</div>
</form>
</body>
</html>
```

FYIT.aspx[Design]



FYIT.aspx[Source]

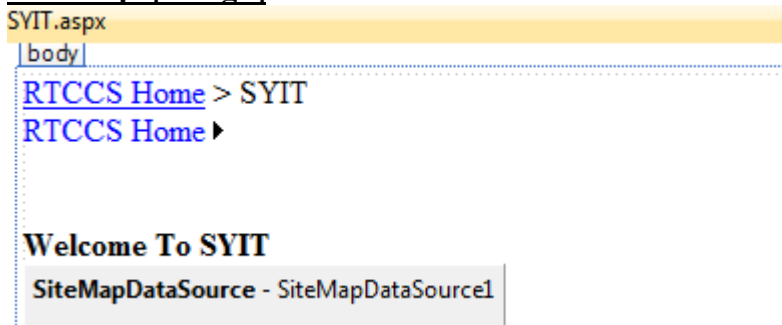
```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="FYIT.aspx.cs"
Inherits="FYIT" %>
```

```
<!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:SiteMapPath ID="SiteMapPath1" runat="server">
</asp:SiteMapPath>
<br />
<asp:Menu ID="Menu1" runat="server" DataSourceID="SiteMapDataSource1">
</asp:Menu>
<asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" />
<br />
<br />
<b>Welcome To FYIT</b>
</div>
</form>
</body>
</html>
```

SYIT.aspx[Design]



SYIT.aspx[Source]

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

```
<!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:SiteMapPath ID="SiteMapPath1" runat="server">
```

```
</asp:SiteMapPath>
```

```
<br />
```

```
<asp:Menu ID="Menu1" runat="server" DataSourceID="SiteMapDataSource1">
```

```
</asp:Menu>
```

```
<br />
```

```
<br />
```

```
<b>Welcome To SYIT</b>
```

```
<asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" />
```

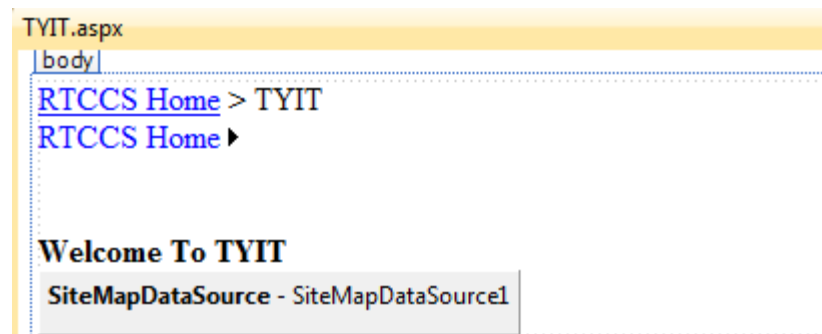
```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

TYIT.aspx[Design]



TYIT.aspx[Source]

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

```
<!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:SiteMapPath ID="SiteMapPath1" runat="server">
```

```
</asp:SiteMapPath>
```

```
<br />
```

```
<asp:Menu ID="Menu1" runat="server" DataSourceID="SiteMapDataSource1">
```

```
</asp:Menu>
```

```
<br />
```

```
<br />
```

```
<b>Welcome To TYIT</b>
```

```
<asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" />
```

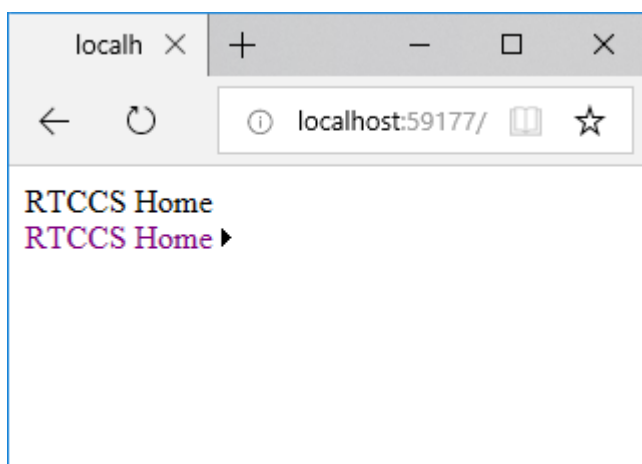
```
</div>
```

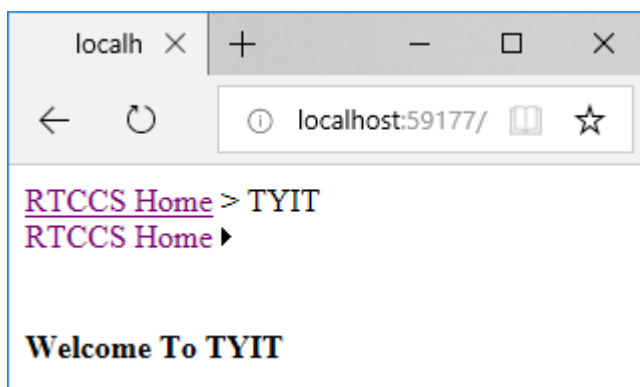
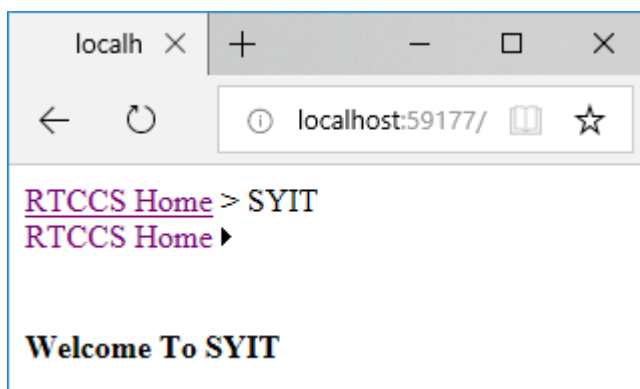
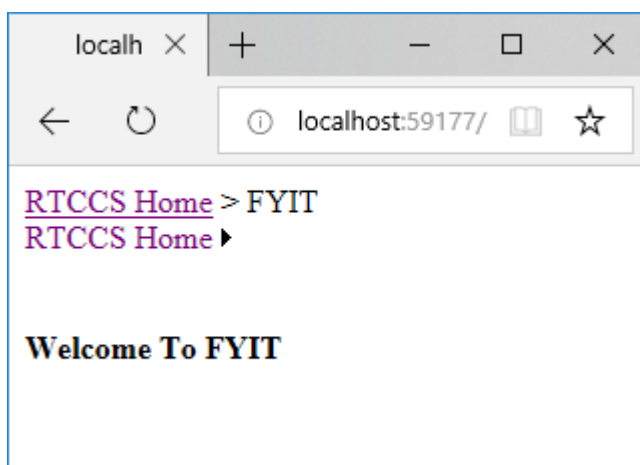
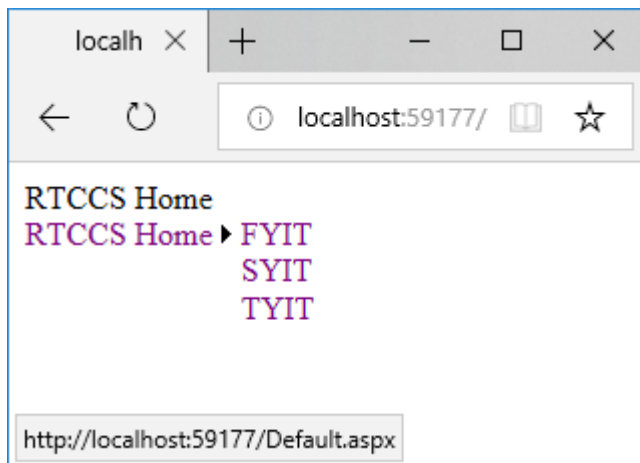
```
</form>
```

```
</body>
```

```
</html>
```

Output

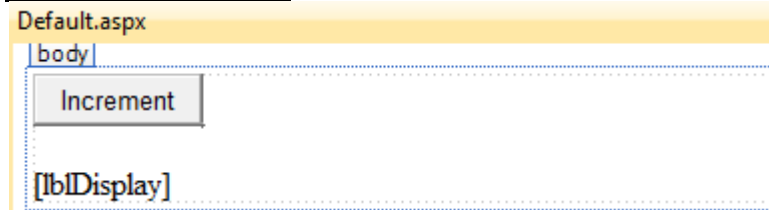




CJ Create a Web Form to demonstrate various states of ASP.NET Pages.

I] View State

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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:Button ID="btnIncrement" runat="server" onclick="btnIncrement_Click"
```

```
Text="Increment" />
```

```
<br />
```

```
<br />
```

```
<asp:Label ID="lblDisplay" runat="server"></asp:Label>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

Properties

Control	Properties	Property Values
Button1	ID	btnIncrement
	Text	Increment
Label1	ID	lblDisplay
	Text	

Default.aspx.cs

```
using System;
```

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

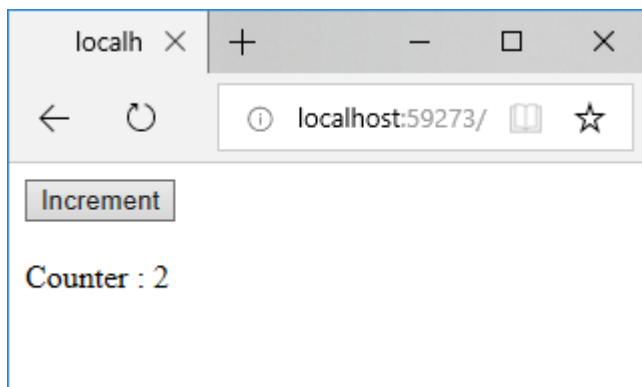
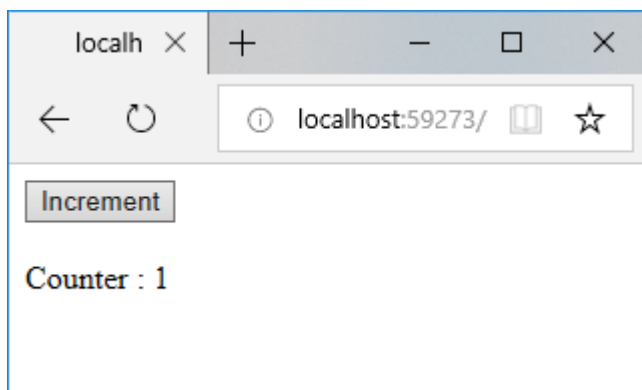
```
using System.Linq;
```

```
using System.Web;
```

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

public partial class _Default : System.Web.UI.Page
{
    protected void btnIncrement_Click(object sender, EventArgs e)
    {
        int counter;
        if(ViewState["Counter"]== null)
        {
            counter=1;
        }
        else
        {
            counter=(int)ViewState["Counter"]+1;
        }
        ViewState["Counter"] = counter;
        lblDisplay.Text = "Counter : " + counter.ToString();
    }
}
```

Output



II] Query String

Default.aspx[Design]

Default.aspx

body

Enter first name :

Enter last name :

Default.aspx[Source]

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

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

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

Enter first name :

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

Enter last name :

```
<asp:TextBox ID="txtLname" runat="server"></asp:TextBox>
<br />
<br />
<asp:Button ID="btnSubmit" runat="server" onclick="btnSubmit_Click"
Text="Submit" />
```

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

Properties

Control	Properties	Property Values
---------	------------	-----------------

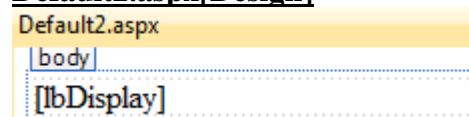
TextBox1	ID	txtFname
TextBox2	ID	txtLname
Button1	ID	btnSubmit
	Text	Submit

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 btnSubmit_Click(object sender, EventArgs e)
    {
        String url = "Default2.aspx?fname=" + txtFname.Text + "&";
        url += "lname=" + txtLname.Text;
        Response.Redirect(url);
    }
}
```

Default2.aspx[Design]



Default2.aspx[Source]

```
<% @ Page Language="C#" AutoEventWireup="true" CodeFile="Default2.aspx.cs"
Inherits="Default2" %>
<!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="lbDisplay" runat="server"></asp:Label>
</div>
</form>
```

</body>
</html>

Properties

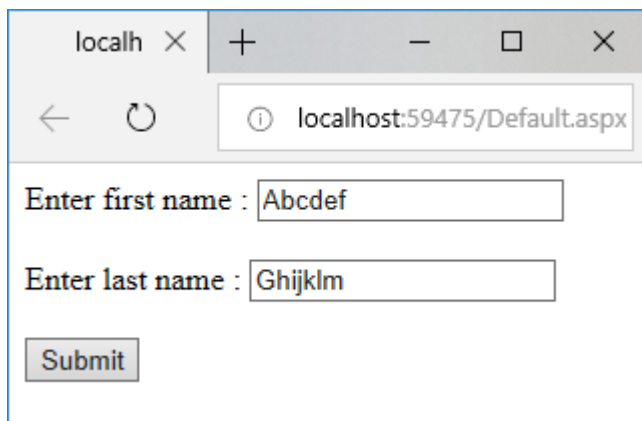
Control	Properties	Property Values
Label1	ID	lblDisplay
	Text	

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)  
    {  
        lblDisplay.Text = "First Name :"+Request.QueryString["fname"]+"<br/>";  
        lblDisplay.Text+= "last Name:"+Request.QueryString["lname"]; } }
```

Output

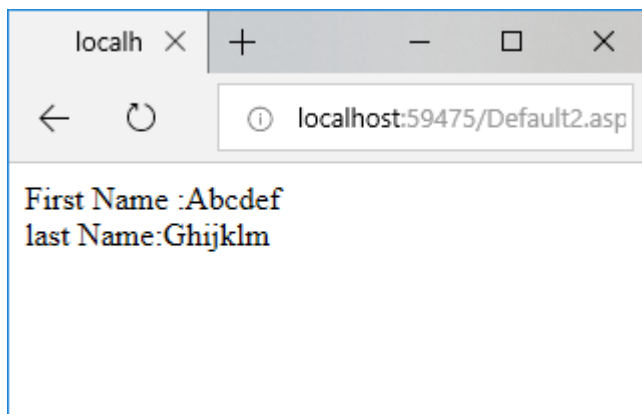


localhost × + − □ ×

← ↻ ⓘ localhost:59475/Default.aspx

Enter first name :

Enter last name :



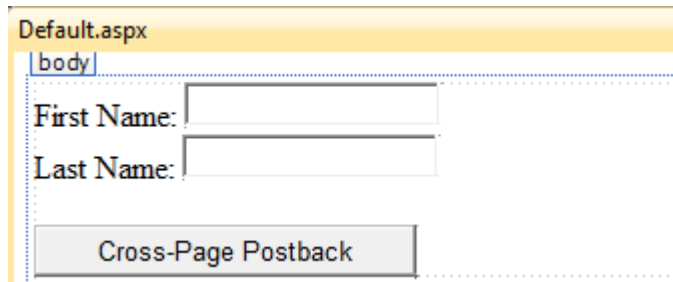
localhost × + − □ ×

← ↻ ⓘ localhost:59475/Default2.aspx

First Name :Abcdef
last Name:Ghijklm

III] Cross Page Posting

Default.aspx[Design]



The design view of Default.aspx shows a form with two text boxes. The first text box is labeled 'First Name:' and the second is labeled 'Last Name:'. Below these text boxes is a button labeled 'Cross-Page Postback'.

Default.aspx[Source]

```
<% @ 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> Cross-Page Postback</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            First Name:
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <br />
            Last Name:
            <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <br />
            <asp:Button ID="btnPost" runat="server"PostBackUrl="~/Default2.aspx"
                Text="Cross-Page Postback" />
        </div>
    </form>
</body>
</html>
```

Properties

Control	Properties	Property Values
TextBox1	ID	TextBox1
TextBox2	ID	TextBox2
Button1	ID	btnPost
	Text	Cross-Page Postback
	PostBackUrl	Default2.aspx

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
{
    public string FullName
    {
        get
        {
            return TextBox1.Text + " " + TextBox2.Text;
        }
    }
}

```

Default2.aspx[Design]



Default2.aspx[Source]

```

<% @ Page Language="C#" AutoEventWireup="true" CodeFile="Default2.aspx.cs"
Inherits="Default2" %>
<%@ PreviousPageType VirtualPath="~/Default.aspx" %>

<!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="lblInfo" runat="server"></asp:Label>
        </div>
    </form>
</body>
</html>

```

Properties

Control	Properties	Property Values
Label1	ID	lblInfo
	Text	

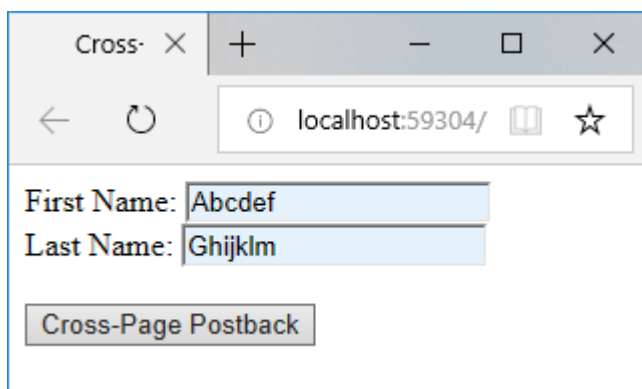
Default2.aspx.cs

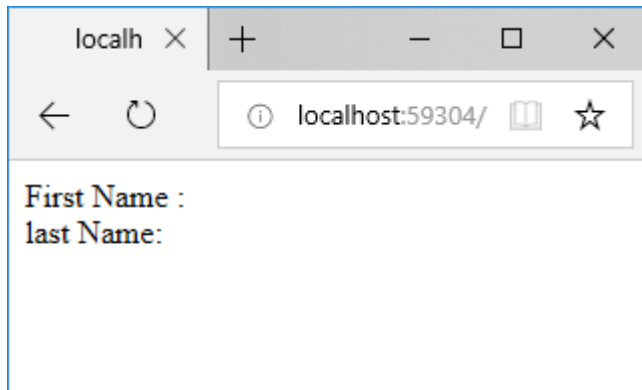
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class Default2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (PreviousPage != null)
        {
            lblInfo.Text = "You came from a page titled " + PreviousPage.Title + "<br/>";

            lblInfo.Text += "You typed in this : " + PreviousPage.FullName;
        }
    }
}
```

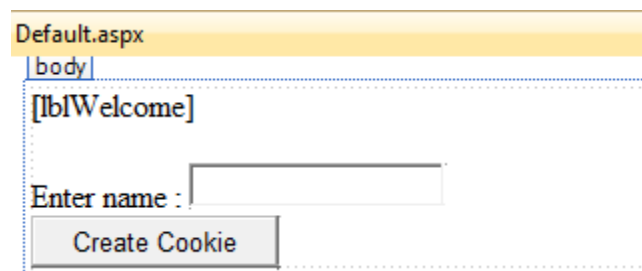
Output





IV] Cookies

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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="lblWelcome" runat="server"></asp:Label>
      <br />
      <br />
      Enter name :
      <asp:TextBox ID="txtName" runat="server"></asp:TextBox>
      <br />
      <asp:Button ID="btnStore" runat="server" onclick="btnStore_Click"
        Text="Create Cookie" />
    </div>
  </form>
```

</body>
</html>

Properties

Control	Properties	Property Values
Label1	ID	lblWelcome
	Text	
Button1	ID	btnStore
	Text	Create Cookie
TextBox1	ID	txtName

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.Net;

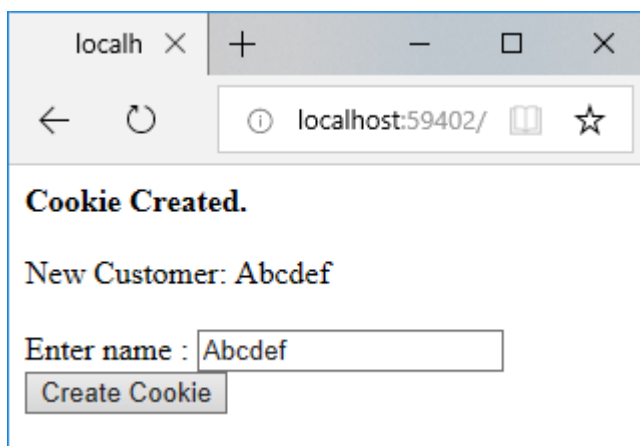
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        HttpCookie cookie = Request.Cookies["Preferences"];
        if (cookie == null)
        {
            lblWelcome.Text = "<b>Unknown Customer.</b><br><br>";
        }
        else
        {
            lblWelcome.Text = "<b> Cookie Found.</b><br><br>";
            lblWelcome.Text += "Welcome, " + cookie["Name"];
        }
    }

    protected void btnStore_Click(object sender, EventArgs e)
    {
        HttpCookie cookie = Request.Cookies["Preferences"];
        if (cookie == null)
        {
            cookie = new HttpCookie("Preferences");
        }
    }
}
```

```
        cookie["Name"] = txtName.Text;
        cookie.Expires = DateTime.Now.AddMonths(1);
        Response.Cookies.Add(cookie);

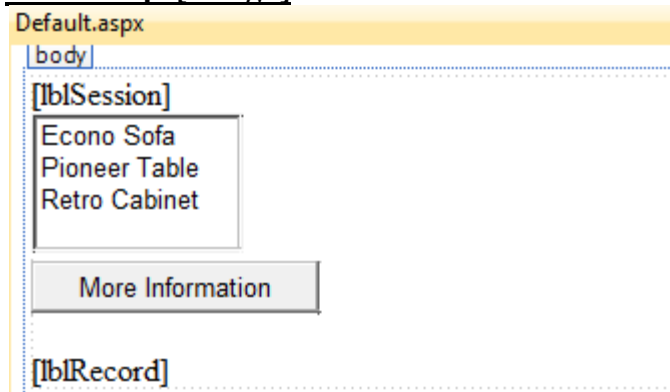
        lblWelcome.Text = "<b>Cookie Created. </b><br><br>";
        lblWelcome.Text += "New Customer: " + cookie["Name"];
    }
}
```

Output



V] Session State

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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="lblSession" runat="server"></asp:Label>
      <br />
      <asp:ListBox ID="lstItems" runat="server">
        <asp:ListItem>Econo Sofa</asp:ListItem>
        <asp:ListItem>Pioneer Table</asp:ListItem>
        <asp:ListItem>Retro Cabinet</asp:ListItem>
      </asp:ListBox>
      &nbsp;<br />
      <asp:Button ID="btnMoreInfo" runat="server" onclick="btnMoreInfo_Click"
        Text="More Information" />
      <br />
      <br />
      <asp:Label ID="lblRecord" runat="server"></asp:Label>
    </div>
  </form>
</body>
</html>
```

Properties

Control	Properties	Property Values
---------	------------	-----------------

Label1	ID	lblSession
	Text	
Label2	ID	lblRecord
	Text	
ListBox1	ID	lstItems
Button1	ID	btnMoreInfo
	Text	More Information

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 class Furniture
{
    public string Name;
    public string Description;
    public decimal Cost;
    public Furniture(string name, string description, decimal cost)
    {
        Name = name;
        Description = description;
        Cost = cost;
    }
}

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!this.IsPostBack)
        {
            Furniture piece1 = new Furniture("Econo Sofa", "Acme Inc.", 74.99M);
            Furniture piece2 = new Furniture("Pioneer Table", "Heritage Unit", 866.75M);
            Furniture piece3 = new Furniture("Retro Cabinet", "Sixties Ltd. Inc.", 300.11M);

            Session["Furniture1"] = piece1;
            Session["Furniture2"] = piece2;
            Session["Furniture3"] = piece3;
        }
        lblSession.Text = "Session ID: " + Session.SessionID;
        lblSession.Text += "<br>Number of Objects: " + Session.Count.ToString();
        lblSession.Text += "<br>Mode: " + Session.Mode.ToString();
        lblSession.Text += "<br>Is Cookieless: " + Session.IsCookieless.ToString();
        lblSession.Text += "<br>Is New: " + Session.IsNewSession.ToString();
        lblSession.Text += "<br>Timeout (minutes): " + Session.Timeout.ToString();
    }
}

```

```

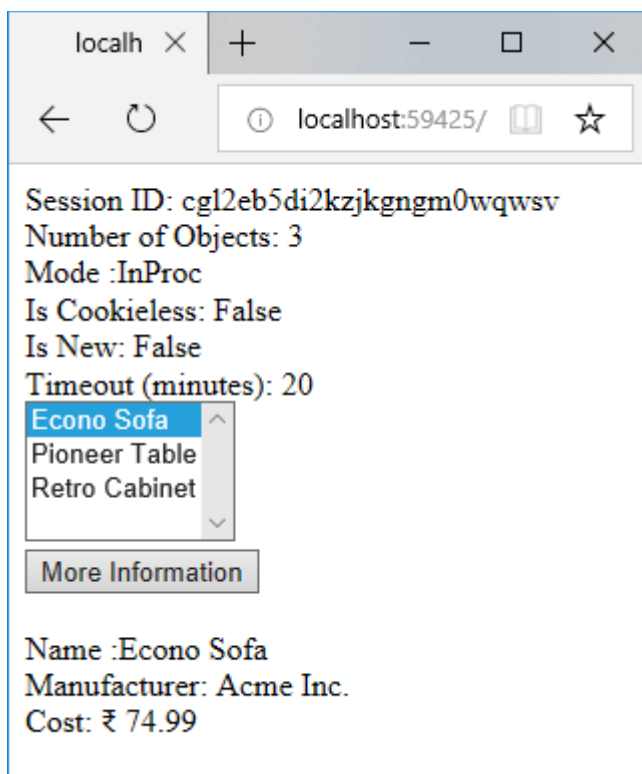
    }

    protected void btnMoreInfo_Click(object sender, EventArgs e)
    {
        if (lstItems.SelectedIndex == -1)
        {
            lblRecord.Text = "No item Selected.";
        }
        else
        {
            string key = "Furniture" + (lstItems.SelectedIndex + 1).ToString();
            Furniture piece = (Furniture)Session[key];

            lblRecord.Text = "Name :" + piece.Name;
            lblRecord.Text += "<br>Manufacturer: " + piece.Description;
            lblRecord.Text += "<br>Cost: " + piece.Cost.ToString("c");
        }
    }
}

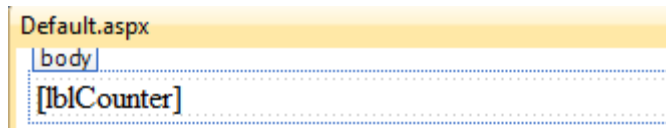
```

Output



VI] Application State

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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="lblCounter" runat="server"></asp:Label>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

Properties

Control	Properties	Property Values
Label1	ID	lblCounter
	Text	

Default.aspx.cs

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

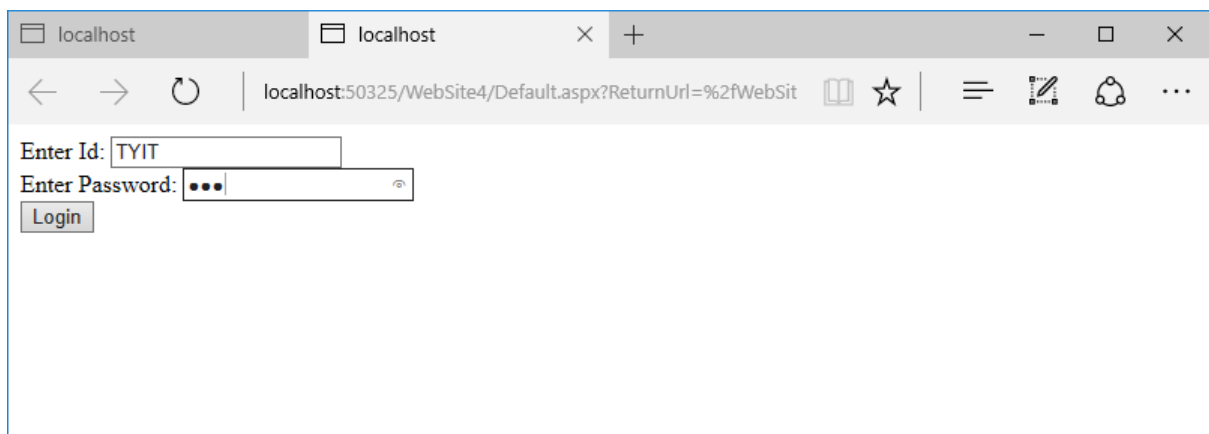
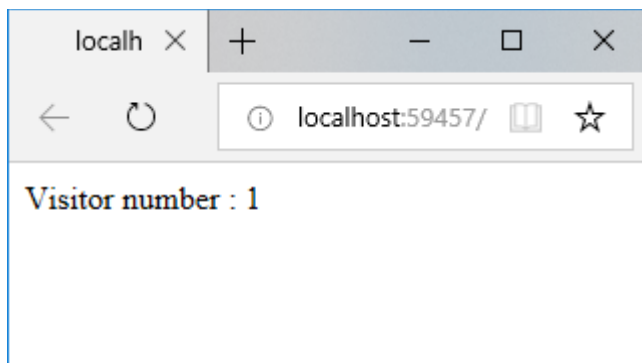
```

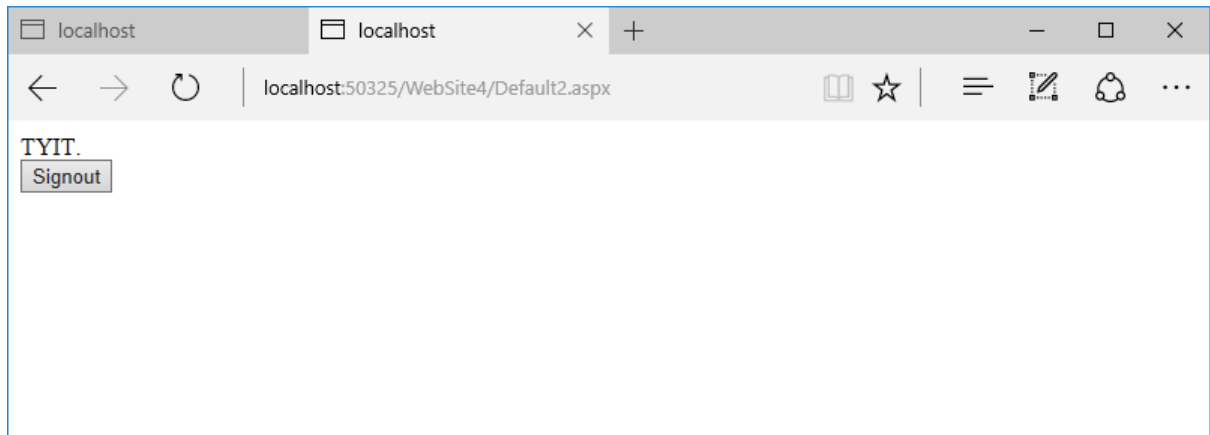
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        Application.Lock();
        int count = 0;
        if (Application["HitCounter"] != null)
        {
            count = (int)Application["HitCounter"];
        }
        count++;
        Application["HitCounter"] = count;
        Application.UnLock();
        lblCounter.Text = "Visitor number : "+count.ToString();
    }
}

```

Output





PRACTICAL NO 6

(A)AIM:-Create a web application to bind the data in multiline textbox by the query from another textbox.

Default.aspx[Design]



Default.aspx[Source]

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

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

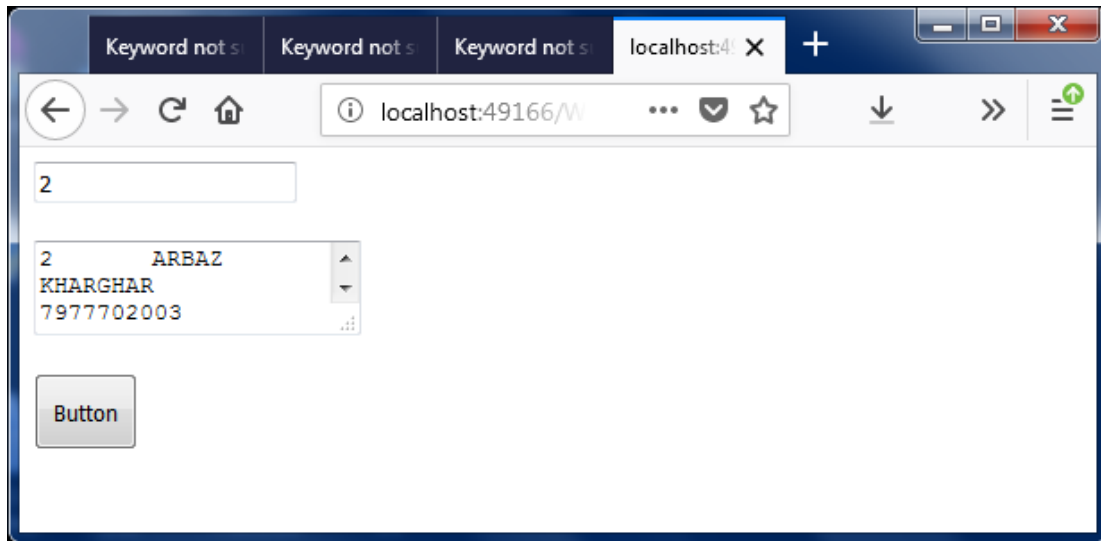
```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:TextBox ID="TextBox1" runat="server" Width="141px" BorderWidth="4px"
                ForeColor="Black"></asp:TextBox>
            <br />
            <br>
            <asp:TextBox ID="TextBox3" runat="server" TextMode="MultiLine"
                BorderWidth="4px" ForeColor="Black"></asp:TextBox>
            <br />
            <br>
            <asp:Button ID="Button1" runat="server" Height="43px" Text="Button"
                onclick="Button1_Click" BorderWidth="4px" />
        </div>
    <p>
    </p>
    </form>
</body>
</html>
```

Default.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
public partial class kitty : System.Web.UI.Page
{
    SqlConnection cn = new SqlConnection("Data Source=.;Initial Catalog=rtccs;Integrated
Security=True");
    SqlCommand cmd = new SqlCommand();
    SqlDataReader dr;

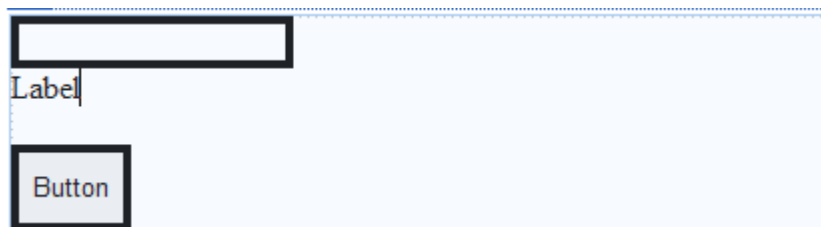
    protected void Page_Load(object sender, EventArgs e)
    {
        cn.Open();
        cmd.Connection = cn;
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        cmd.CommandText = "select * from TYIT where ROLL_NO=" + TextBox1.Text + "";
        dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            TextBox3.Text += dr[0].ToString() + "\t" + dr[1].ToString() + "\t" + dr[2].ToString()
+ "\t" + dr[3].ToString() + "\n";
        }
    }
}
```

OUTPUT:-



(B)AIM:-Create a web application to display record by using data base.

Default.aspx[Design]



Default.aspx[Source]

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

```
<!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:TextBox ID="TextBox1" runat="server" Width="141px" BorderWidth="4px"
ForeColor="Black"></asp:TextBox>
```

```

        <br>
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
    <br />
    <br>
    <asp:Button ID="Button1" runat="server" Height="43px" Text="Button"
        onclick="Button1_Click" BorderWidth="4px" />

</div>

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

```

Default.aspx.cs

```

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

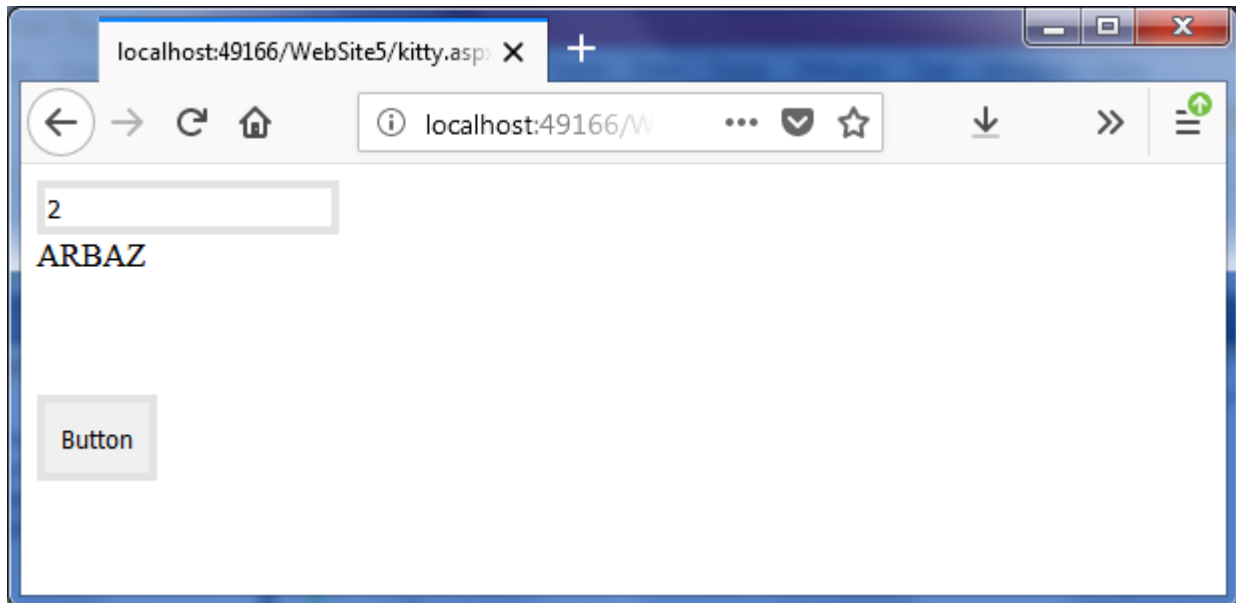
public partial class kitty : System.Web.UI.Page
{
    SqlConnection cn = new SqlConnection("Data Source=.;Initial Catalog=rtccs;Integrated
Security=True");
    SqlCommand cmd = new SqlCommand();
    SqlDataReader dr;

    protected void Page_Load(object sender, EventArgs e)
    {
        cn.Open();
        cmd.Connection = cn;
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        cmd.CommandText = "select name from TYIT where ROLL_NO=" + TextBox1.Text +
"";

        Label1.Text = cmd.ExecuteScalar().ToString();
    }
}

```

OUTPUT:-



(C)AIM:-Demonstrate the use of data link control.

Default.aspx[Source]

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

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br>
            <br />
            <br>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server"
                ConnectionString="<%%$ ConnectionStrings:rtccsConnectionString %>"
                SelectCommand="SELECT * FROM [TYIT]"></asp:SqlDataSource>
            <asp:DataList ID="DataList1" runat="server" DataSourceID="SqlDataSource1">
                <ItemTemplate>
                    ROLL_NO:
                    <asp:Label ID="ROLL_NOLabel" runat="server" Text='<%%# Eval("ROLL_NO")
%>' />
                    <br />
                    NAME:
                    <asp:Label ID="NAMELabel" runat="server" Text='<%%# Eval("NAME") %>' />
                    <br />
                    CITY:
                    <asp:Label ID="CITYLabel" runat="server" Text='<%%# Eval("CITY") %>' />
                    <br />
                    CONTACT:
                    <asp:Label ID="CONTACTLabel" runat="server" Text='<%%# Eval("CONTACT")
%>' />

                    <br />
                </ItemTemplate>
            </asp:DataList>
        </div>
    <p>
```

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

Default.aspx.cs

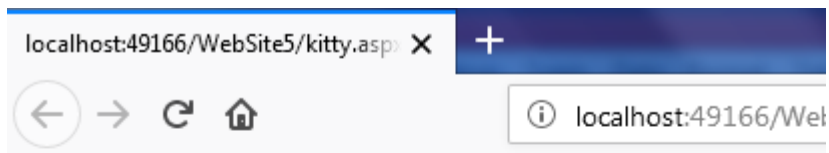
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;

public partial class kitty : System.Web.UI.Page
{
    SqlConnection cn = new SqlConnection("Data Source=.;Initial Catalog=rtccs;Integrated
Security=True");
    SqlCommand cmd = new SqlCommand();
    SqlDataReader dr;

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

    }
}
```

OUTPUT:-



ROLL_NO: 1
NAME: SADIA
CITY: MUMBAI
CONTACT: 8433585691

ROLL_NO: 2
NAME: ARBAZ
CITY: KHARGHAR
CONTACT: 7977702003

ROLL_NO: 3
NAME: RIYA
CITY: PUNE
CONTACT: 8433565984

ROLL_NO: 4
NAME: ARFAT
CITY: PANVEL
CONTACT: 5681436488

ROLL_NO: 5
NAME: WAQAS
CITY: MUMBAI
CONTACT: 9324742218

PRACTICAL NO 7

AIM:-Create a web application for inserting and deleting record from a database.

Default.aspx[Source]

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

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div style="height: 534px">

            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Insert" />
            <br />
            <br />
            <asp:Button ID="Button2" runat="server" onclick="Button2_Click" Text="Delete" />
            <br />
            <br />

            <asp:Button ID="Button3" runat="server" onclick="Button3_Click" Text="View" />
            <br />
            <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False">
            </asp:GridView>

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

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

Default.aspx.cs[Source]

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

public partial class _Default : System.Web.UI.Page
{
    SqlConnection con = new SqlConnection("Data Source=.;Initial Catalog=jay;Integrated
Security=true");
    SqlCommand cmd = new SqlCommand();
    SqlDataReader dr;
    SqlParameter @p1, @p2, @p3, @p4;

    protected void Page_Load(object sender, EventArgs e)
    {
        con.Open();
        cmd.Connection = con;
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        @p1 = new SqlParameter();
        @p1.ParameterName = "Roll_no";
        @p1.SqlDbType = System.Data.SqlDbType.VarChar;
        @p2 = new SqlParameter();
        @p2.ParameterName = "Name";
        @p2.SqlDbType = System.Data.SqlDbType.VarChar;
        @p3 = new SqlParameter();
        @p3.ParameterName = "City";
        @p3.SqlDbType = System.Data.SqlDbType.VarChar;
        @p4 = new SqlParameter();
        @p4.ParameterName = "Contact";
        @p4.SqlDbType = System.Data.SqlDbType.VarChar;

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



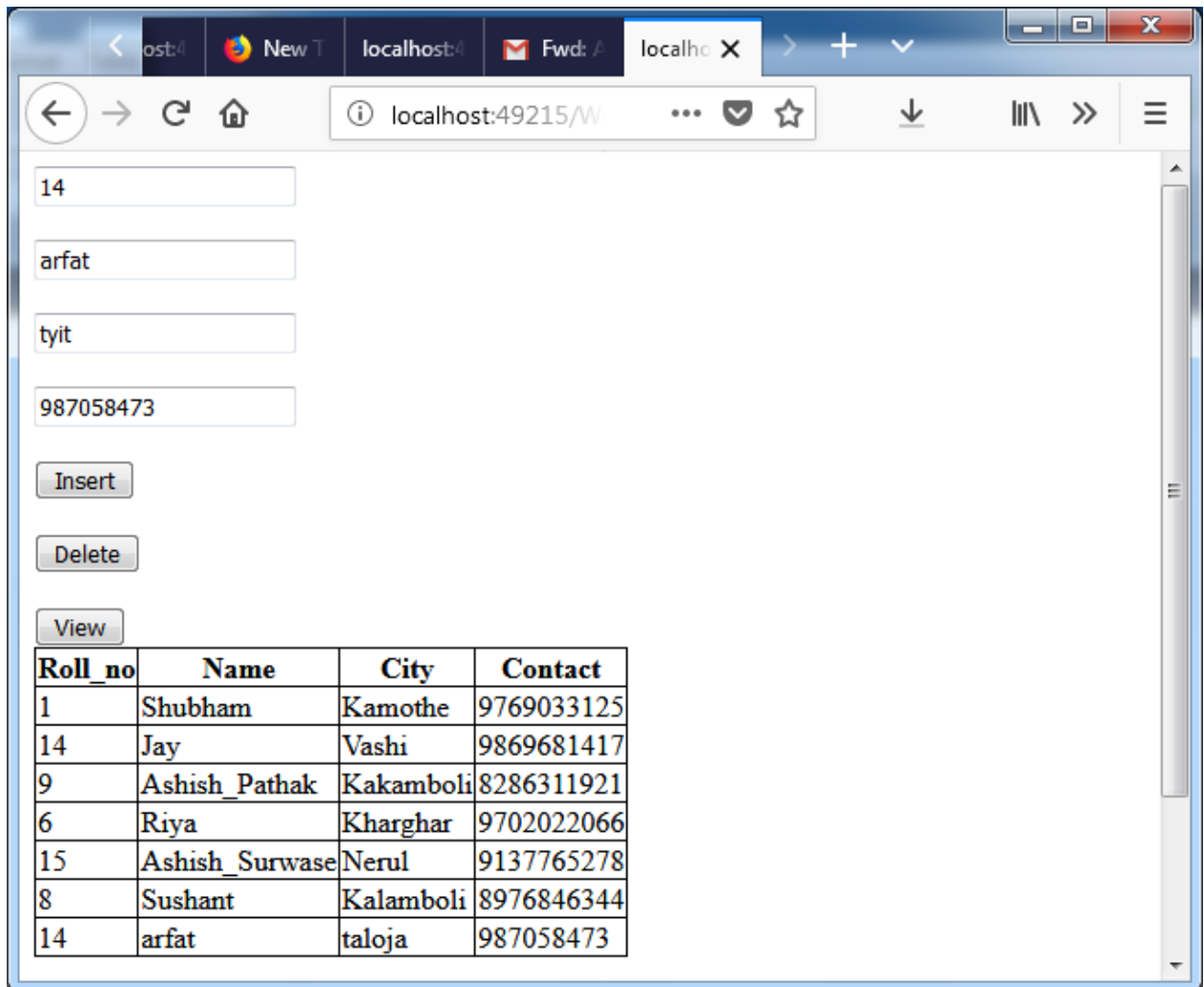
```
        cmd.CommandText = "insert into TYIT(Roll_no,Name,City,Contact)
values(@p1,@p2,@p3,@p4)";
        cmd.ExecuteNonQuery();

    }
    protected void Button3_Click(object sender, EventArgs e)
    {
        cmd.CommandText = "select * from TYIT";
        dr = cmd.ExecuteReader();
        GridView1.DataSource = dr;
        GridView1.DataBind();

    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        cmd.CommandText = "delete from stdetail where sno=" + TextBox1.Text;
        cmd.ExecuteNonQuery();

    }
}
```

OUTPUT:-



The screenshot shows a web browser window with a single tab titled 'localhost:49215/W'. The address bar contains 'localhost:49215/W'. The page content includes a form with four input fields containing the values '14', 'arfat', 'tyit', and '987058473'. Below the form are three buttons: 'Insert', 'Delete', and 'View'. The 'View' button is active, displaying a table with the following data:

Roll_no	Name	City	Contact
1	Shubham	Kamothe	9769033125
14	Jay	Vashi	9869681417
9	Ashish_Pathak	Kakamboli	8286311921
6	Riya	Kharghar	9702022066
15	Ashish_Surwase	Nerul	9137765278
8	Sushant	Kalamboli	8976846344
14	arfat	taloja	987058473

PRACTICAL NO 9

AIM:-create a web application to demonstrate GridView paging and creating own table format using Grid View.

Default.aspx[Design]

ROLL_NO	NAME	CITY	CONTACT
Databound	Databound	Databound	Databound
Databound	Databound	Databound	Databound
Databound	Databound	Databound	Databound
1 2			

SqlDataSource - SqlDataSource1

Default.aspx[Source]

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

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

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

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<br />
```

```
<asp:GridView ID="GridView1" runat="server" AllowPaging="True"
```

```
AutoGenerateColumns="False" DataSourceID="SqlDataSource1"
```

```
onselectedindexchanged="GridView1_SelectedIndexChanged" PageSize="3">
```

```
<Columns>
```

```
<asp:BoundField DataField="ROLL_NO" HeaderText="ROLL_NO"
```

```
SortExpression="ROLL_NO" />
```

```
<asp:BoundField DataField="NAME" HeaderText="NAME"
```

```
SortExpression="NAME" />
```

```
<asp:BoundField DataField="CITY" HeaderText="CITY" SortExpression="CITY"
```

```
/>
```

```
<asp:BoundField DataField="CONTACT" HeaderText="CONTACT"
```

```
SortExpression="CONTACT" />
```

```

        </Columns>
    </asp:GridView>
    <br />
    <br />

</div>
<asp:SqlDataSource ID="SqlDataSource1" runat="server"
    ConnectionString="<%$ ConnectionStrings:rtccsConnectionString2 %>"
    SelectCommand="SELECT * FROM [TYIT]"></asp:SqlDataSource>
</form>
</body>
</html>

```

Default.aspx.cs

```

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

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

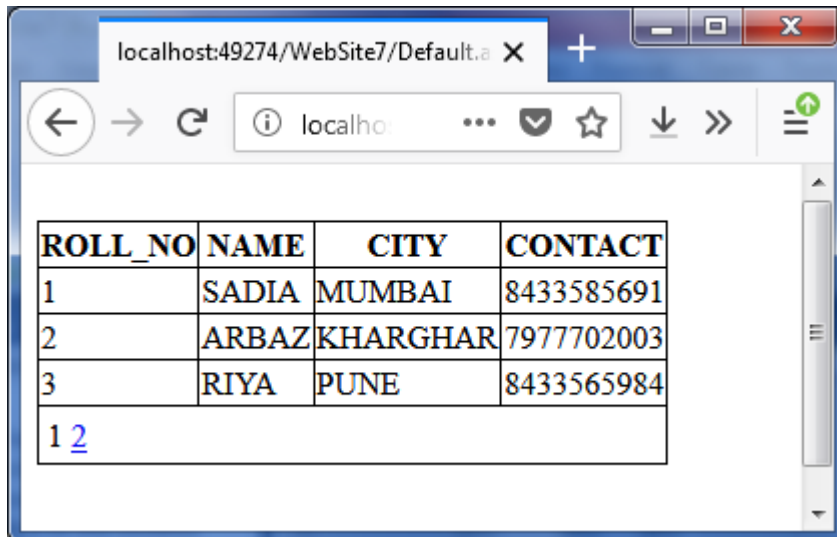
    }

    protected void GridView1_SelectedIndexChanged(object sender, EventArgs e)
    {

    }
}

```

OUTPUT:-



A screenshot of a web browser window. The address bar shows 'localhost:49274/WebSite7/Default.a'. The browser displays a table with 4 columns: ROLL_NO, NAME, CITY, and CONTACT. The table contains 3 rows of data. Below the table, there is a pagination control showing '1 2' with a blue underline under the '1'.

ROLL_NO	NAME	CITY	CONTACT
1	SADIA	MUMBAI	8433585691
2	ARBAZ	KHARGHAR	7977702003
3	RIYA	PUNE	8433565984

1 2



A screenshot of a web browser window. The address bar shows 'localhost:49274/WebSite7/Default.a'. The browser displays a table with 4 columns: ROLL_NO, NAME, CITY, and CONTACT. The table contains 2 rows of data. Below the table, there is a pagination control showing '1 2' with a blue underline under the '1'.

ROLL_NO	NAME	CITY	CONTACT
4	ARFAT	PANVEL	5681436488
5	WAQAS	MUMBAI	9324742218

1 2

PRACTICAL 10

A] AIM: Create a web application to demonstrate reading and writing operation with XML.

Adding XML file

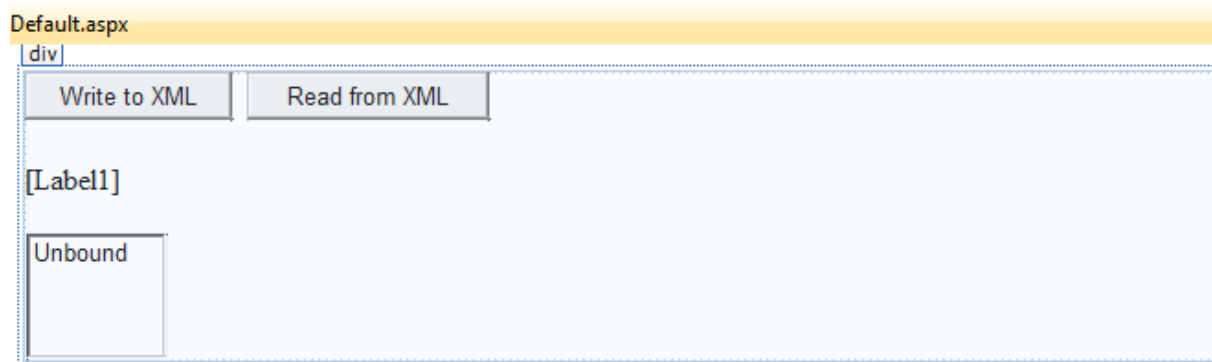
Website-> Add New Item-> XML File and name it 'XMLWriteRead.xml'

XMLWriteRead.xml

```
<? xml version="1.0"?>

<StudentList>
  <Student1>
    <Name>Alice</Name>
    <Id>01</Id>
  </Student1>
  <Student2>
    <Name>John</Name>
    <Id>02</Id>
  </Student2>
</StudentList>
```

Default.aspx[Design]



Default.aspx[Source]

```
<% @ 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:Button ID="btnWrite" runat="server" onclick="btnWrite_Click"
            Text="Write to XML" />
    &nbsp;
    <asp:Button ID="btnRead" runat="server" onclick="btnRead_Click"
        Text="Read from XML" />
    <br />
    <br />
    <asp:Label ID="Label1" runat="server"></asp:Label>
    <br />
    <br />
    <asp:ListBox ID="ListBox1" runat="server"></asp:ListBox>

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

```

Properties

Control	Properties	Property Values
Button1	ID	btnWrite
	Text	Write to XML
Button2	ID	btnRead
	Text	Read from XML
Label1	ID	Label1
	Text	
ListBox1	ID	ListBox1

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;
using System.IO;

public partial class _Default : System.Web.UI.Page
{
    protected void btnWrite_Click(object sender, EventArgs e)
    {
        XmlTextWriter w = new XmlTextWriter(@"D:\College\2018-2019\TYIT\SEM-
5\PRACTICALS\10A\XMLWriteRead.xml", null);
        w.Formatting = Formatting.Indented;//set it to indent output
    }
}

```

```
w.Indentation = 5;//set the number of indent spaces
w.WriteStartDocument();
w.WriteStartElement("StudentList");//Root Element
```

```
w.WriteStartElement("Student1");
w.WriteStartElement("Name");
w.WriteString("Vidya");
w.WriteEndElement();
w.WriteStartElement("Id");
w.WriteString("01");
w.WriteEndElement();
w.WriteEndElement();
```

```
w.WriteStartElement("Student2");
w.WriteStartElement("Name");
w.WriteString("Menon");
w.WriteEndElement();
w.WriteStartElement("Id");
w.WriteString("02");
w.WriteEndElement();
w.WriteEndElement();
```

```
w.WriteEndElement();
w.WriteEndDocument();
```

```
w.Close();
```

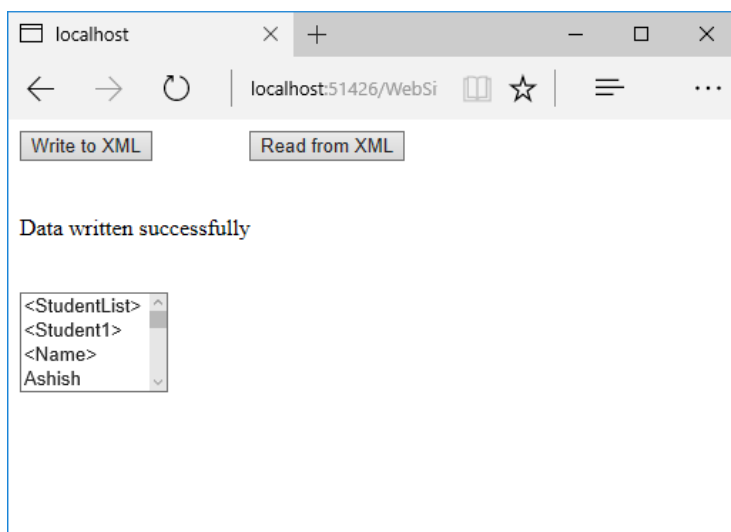
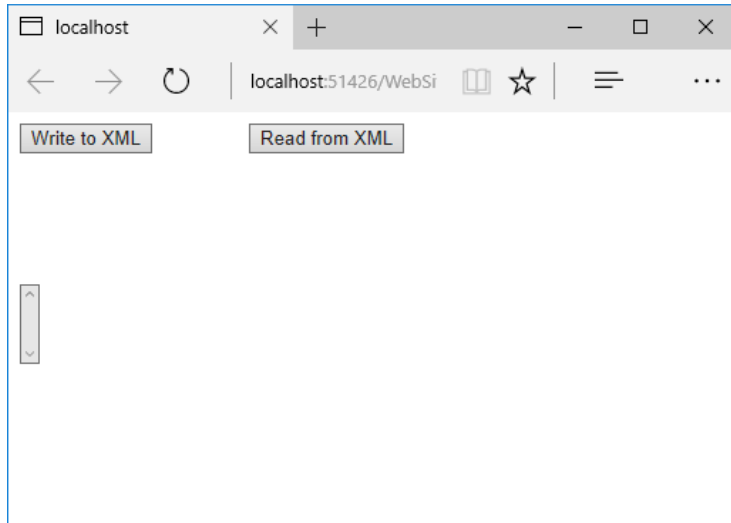
```
Label1.Text = "Data written successfully";
}
```

```
protected void btnRead_Click(object sender, EventArgs e)
{
    XmlTextReader r = new XmlTextReader(@"D:\College\2018-2019\TYIT\SEM-
5\PRACTICALS\10A\XMLWriteRead.xml");
    while (r.Read())
    {
        switch (r.NodeType)
        {
            case XmlNodeType.Element:
                ListBox1.Items.Add("<" + r.Name + ">");
                break;
            case XmlNodeType.Text:
                ListBox1.Items.Add(r.Value);
                break;
            case XmlNodeType.EndElement:
                ListBox1.Items.Add("</" + r.Name + ">");
                break;
        }
    }
}
```



```
}  
  
}
```

Output



B] AIM: Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties.

i] Form Security

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>
```

```
  <system.web>
```

```
    <authentication mode="Forms">
```

```
      <forms loginUrl="Login.aspx"/>
```

```
    </authentication>
```

```
    <authorization>
```

```
      <deny users="?"/>
```

```
      <allow users="*" />
```

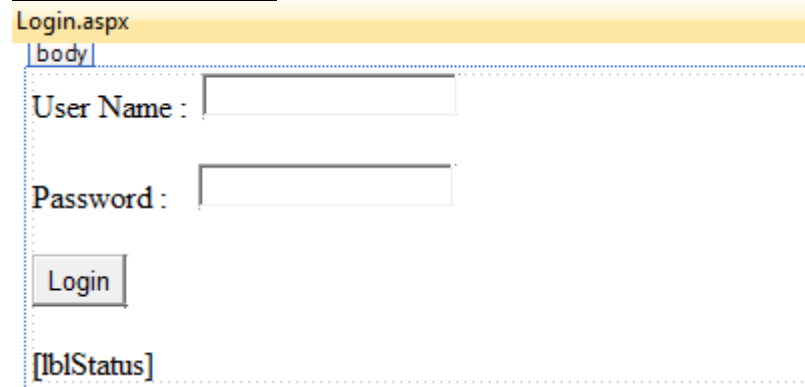
```
    </authorization>
```

```
    <compilation debug="true" targetFramework="4.0"/>
```

```
  </system.web>
```

```
</configuration>
```

Login.aspx[Design]



Login.aspx[Source]

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

```
<!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>Login</title>
```

```
</head>
```

```
<body>
```



```

{

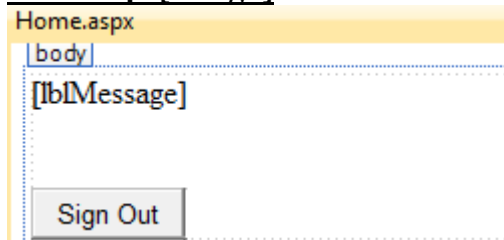
protected void btnLogin_Click(object sender, EventArgs e)
{
    if (txtPassword.Text == "TYIT")
    {
        FormsAuthentication.RedirectFromLoginPage(txtUser.Text, false);
        Response.Redirect("Home.aspx");

    }
    else
    {
        lblStatus.Text = "Try again.";
    }
}

}

```

Home.aspx[Design]



Home.aspx[Source]

```

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

```

```

<!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>Home</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>

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

            <asp:Button ID="btnSign" runat="server" Text="Sign Out"
                onclick="btnSign_Click" />
        </div>
    </form>

```

</body>
</html>

Properties

Control	Properties	Property Values
Button1	ID	btnSign
	Text	Sign Out
Label1	ID	lblMessage
	Text	

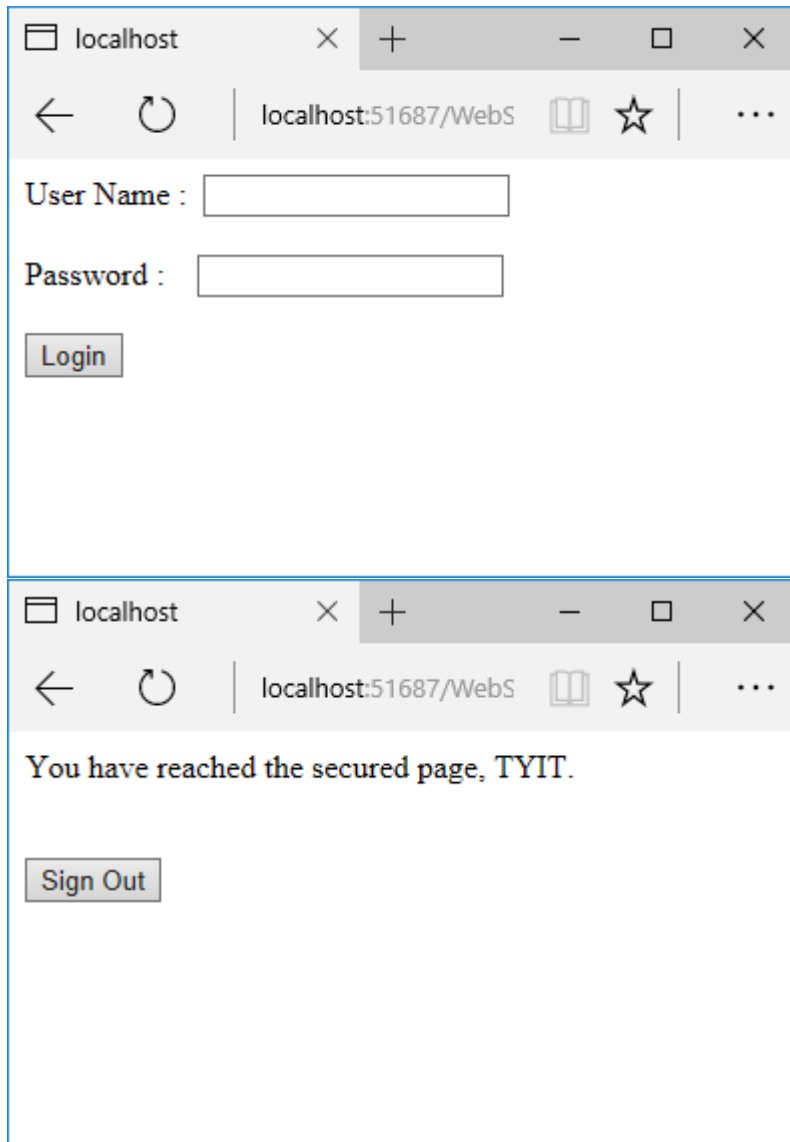
Home.aspx.cs

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

public partial class Home : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        lblMessage.Text = "You have reached the secured page,";
        lblMessage.Text += User.Identity.Name + ".";

    }
    protected void btnSign_Click(object sender, EventArgs e)
    {
        FormsAuthentication.SignOut();
        Response.Redirect("Login.aspx");
    }
}
```

Output



ii] Windows Security

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>
```

```
  <system.web>
```

```
    <authentication mode="Windows"></authentication>
```

```
    <authorization>
```

```
      <deny users=""/>
```

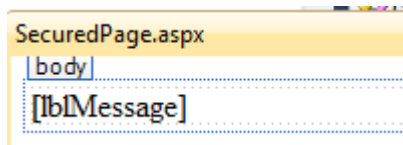
```
    </authorization>
```

```
    <compilation debug="true" targetFramework="4.0"/>
```

```
  </system.web>
```

</configuration>

SecuredPage.aspx[Design]



SecuredPage.aspx[Source]

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

```
<!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="lblMessage" runat="server" Text=""></asp:Label>
    </div>
  </form> </body> </html>
```

Properties

Control	Properties	Property Values
Label1	ID	lblMessage
	Text	

SecuredPage.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.Text;
using System.Security.Principal;

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

```

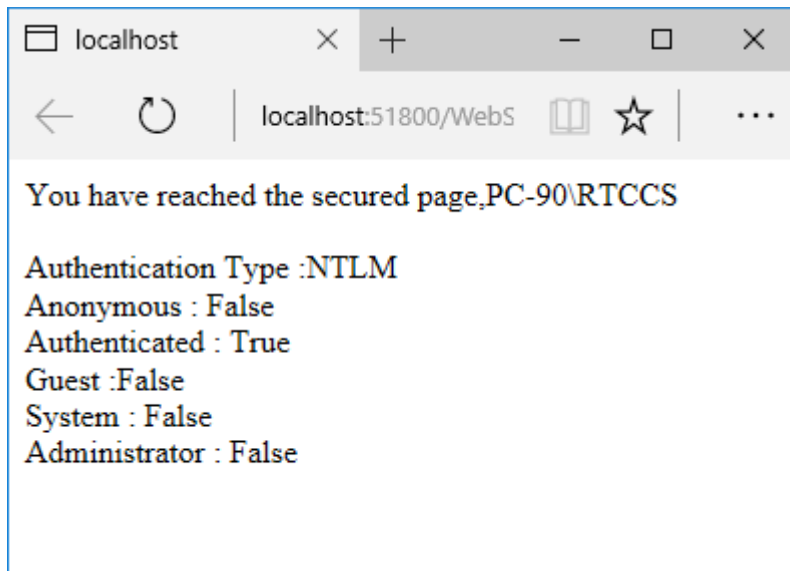
StringBuilder s = new StringBuilder();
s.Append("You have reached the secured page,");
s.Append(User.Identity.Name);

WindowsIdentity win = (WindowsIdentity)User.Identity;
s.Append("<br><br> Authentication Type :");
s.Append(win.AuthenticationType);
s.Append("<br>Anonymous : ");
s.Append(win.IsAnonymous);
s.Append("<br>Authenticated : ");
s.Append(win.IsAuthenticated);
s.Append("<br> Guest :");
s.Append(win.IsGuest);
s.Append("<br>System : ");
s.Append(win.IsSystem);
s.Append("<br>Administrator : ");
s.Append(User.IsInRole(@"BUILTIN\Administrators"));
lblMessage.Text = s.ToString();

}
}

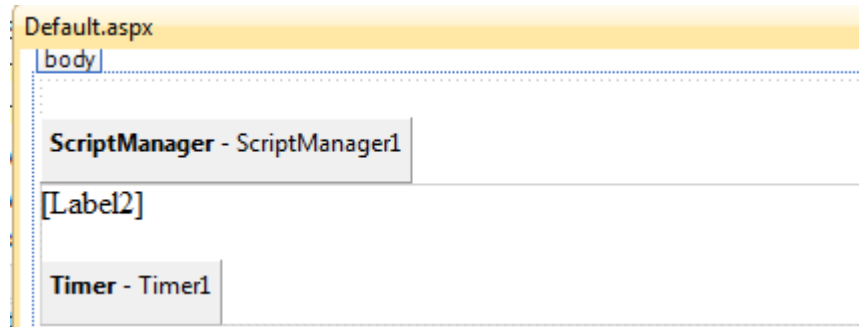
```

Output



C] AIM: Create a web application to demonstrate use of various AJAX controls.

Default.aspx[Design]



Default.aspx[Source]

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

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

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

            <br />
            <asp:ScriptManager ID="ScriptManager1" runat="server">
            </asp:ScriptManager>
            <asp:UpdatePanel ID="UpdatePanel1" runat="server">
            <ContentTemplate>
                <asp:Label ID="Label2" runat="server" Text=""></asp:Label><br /><br />
                <asp:Timer ID="Timer1" runat="server" Interval="1000" ontick="Timer1_Tick">
                </asp:Timer>

            </ContentTemplate>
            </asp:UpdatePanel>
        </div>
    </form>
</body>
</html>
```

Properties

Control	Properties	Property Values
Label1	ID	Label2
	Text	

ScriptManager	ID	ScriptManager1
UpdatePanel	ID	UpdatePanel1
Timer	ID	Timer1
	Interval	1000

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 Timer1_Tick(object sender, EventArgs e)
    {
        string t = DateTime.Now.ToLongTimeString();
        Label2.Text = "Todays date and time : " + t;
    }
}

```

Output

