

Sr.no.	Lis	Date	sign
1.	Write programs for the following:		
a.	Create an application to print on screen the output of adding, subtracting, multiplying and dividing two numbers entered by the user in C#		
b.	Create an application to print Floyd's triangle till n rows in C#		
c.	Create an application to demonstrate following operations i. Generate Fibonacci series. ii. Test for prime numbers		
2.	Write programs for the following:		
a.	Create a simple application to demonstrate the concepts boxing and unboxing.		
b.	Create a simple application to perform addition and subtraction using delegate.		
c.	Create a simple application to demonstrate use of the concepts of interfaces.		
3.	Write programs for the following:		
a.	Create a simple web page with various server controls to demonstrate setting and use of their properties. (Example: AutoPostBack)		
b.	Create a simple application to demonstrate your vacation using calendar control.		
c.	Demonstrate the use of Treeview operations on the web form.		
4.	Write programs for the following:		
a.	Create a Registration form to demonstrate use of various Validation controls.		
b.	Create Web Form to demonstrate use of Adrotator Control.		
c	Create Web Form to demonstrate use User Controls		

5.	Write programs for the following:		
a.	Create Web Form to demonstrate use of Website Navigation controls.		
b.	Create a web application to demonstrate use of Master Page and content page.		
c.	Create a web application to demonstrate various states of ASP.NET Pages.		
6.	Write programs for the following:		
a.	Create a web application for inserting and deleting records from a database.		
b.	Create a web application to display Using Disconnected Data Access and Databinding using GridView.		
7.	Write programs for the following:		
a.	Create a web application to demonstrate the use of different types of Cookies.		
b.	Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties.		
8.	Write programs for the following:		
a.	Create a web application for inserting and deleting records from a database. (Using Execute Non Query).		
b.	Create a web application for user defined exception handling.		
9.	Write programs for the following:		
a.	Create a web application to demonstrate use of GridView button column and GridView events along with paging and sorting.		
b.	Create a web application to demonstrate data binding using DetailsView and FormView Control		
10.	Write programs for the following:		
a.	Create a web application to demonstrate JS Bootstrap Button.		
b.	Create a web application to demonstrate use of various Ajax controls.		
c.	Create a web application to demonstrate Installation and use of NuGet package.		

Practical no 1

1a. Create an application to print on screen the output of adding, subtracting, multiplying and dividing two numbers entered by the user in C#.

Webform1 code:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="if23024_pra1.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Italic="True"
Text="enter number 1"></asp:Label>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <div>

            <asp:Label ID="Label2" runat="server" BorderStyle="None" Font-Bold="True"
Font-Italic="True" Text="enter number 2"></asp:Label>
            <asp:TextBox ID="TextBox2" runat="server"
OnTextChanged="TextBox2_TextChanged"></asp:TextBox>

        </div>
        <p>
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click1"
Text="Button" />
        </p>
        <p>
            <asp:Label ID="Label3" runat="server" Text="addition"></asp:Label>
            &nbsp;<asp:TextBox ID="TextBox3" runat="server"
OnTextChanged="TextBox3_TextChanged"></asp:TextBox>
        </p>
        <p>
            <asp:Label ID="Label4" runat="server" Text="subtraction"></asp:Label>
            <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
        </p>
        <p>
            <asp:Label ID="Label5" runat="server" Text="multiplication"></asp:Label>
            <asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
        </p>
        <p>
            <asp:Label ID="Label6" runat="server" Text="division"></asp:Label>
            <asp:TextBox ID="TextBox6" runat="server"></asp:TextBox>
        </p>
    </form>
</body>
</html>
```

C# code:

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

```

using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace if23024_pra1
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {

        }

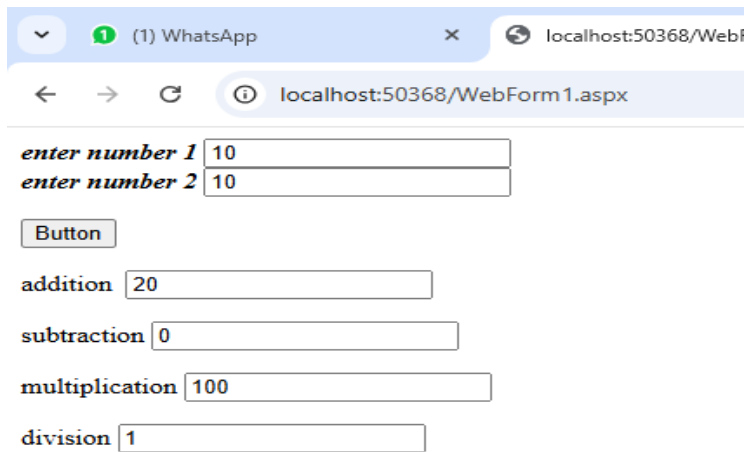
        protected void Button1_Click1(object sender, EventArgs e)
        {
            int a, b, add, sub, mul, div;
            a = Convert.ToInt16(TextBox1.Text);
            b= Convert.ToInt16(TextBox2.Text);
            add = a + b;
            sub = a - b;
            mul = a * b;
            div = a / b;
            TextBox3.Text = Convert.ToString(add);
            TextBox4.Text = Convert.ToString(sub);
            TextBox5.Text = Convert.ToString(mul);
            TextBox6.Text = Convert.ToString(div);
        }

        protected void TextBox2_TextChanged(object sender, EventArgs e)
        {
        }

        protected void TextBox3_TextChanged(object sender, EventArgs e)
        {
        }
    }
}

```

Output:



enter number 1 10

enter number 2 10

Button

addition 20

subtraction 0

multiplication 100

division 1

1b. Create an application to print Floyd's triangle till n

rows in C#. Webcode:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="if23024_pra1.WebForm2" %>

<!DOCTYPE html>

<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"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="ok" />

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

C# code:

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

namespace if23024_pra1
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

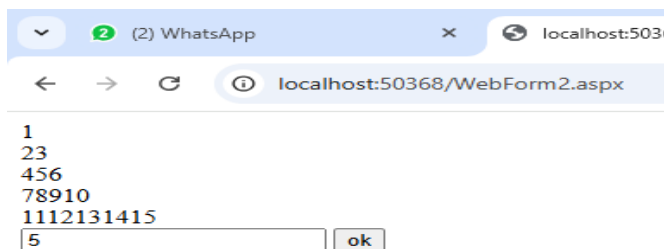
        }
    }
}
```

```

protected void Button1_Click(object sender, EventArgs e)
{
    int n, i, j, k = 1;
    n = Convert.ToInt16(TextBox1.Text);
    for (j = 1; j <= n; j++)
    {
        for (i = 1; i <= j; i++)
        {
            Response.Write(k);
            k++;
        }
        Response.Write("<br>");
    }
}
}
}
}

```

Output:



1c. Create an application to demonstrate following operations i. Generate Fibonacci series. ii. Test for prime numbers.

Web code:

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
Inherits="if23024_pra1.WebForm3" %>

<!DOCTYPE html>

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

            <br />
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="fibonacci" />
            <br />
            <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <asp:Button ID="Button2" runat="server" OnClick="Button2_Click" style="height:
26px" Text="prim" />

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

```

</html>

C# code:

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

namespace if23024_pra1
{
    public partial class WebForm3 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            int n1, c;
            n1 = int.Parse(TextBox2.Text);
            for(c=2;c<=n1-1;c++)
            {
                if ((n1 % c) == 0)
                    break;
            }
            if (n1 == 1)
                Response.Write(n1 + "is neither prime nor composite");
            else if (c < n1 - 1)
                Response.Write(n1 + "is not prime");
            else
                Response.Write(n1 + "is prime");
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            int f1=0,f2=1,f3,n,c0;
            n = int.Parse(TextBox1.Text);
            c0 = 3;
            Response.Write("fibonacci series:");
            Response.Write(f1 + "\t" + f2);
            while(c0<=n)
            {
                f3 = f1 + f2;
                Response.Write("\t" + f3);
                f1 = f2;
                f2 = f3;
                c0++;
            }
        }
    }
}
```

Output:

(2) WhatsApp

×

localhost:50368/Wel

←

→

↻

localhost:50368/WebForm3.aspx

fibonacci series:0 1 1 2

4

fibonacci

prim

(2) WhatsApp

×

localhost:5

←

→

↻

localhost:50368/WebForm3.aspx

4is not prime

4

fibonacci

4

prim

Practical no:2

- a. Create a simple application to demonstrate the concepts boxing and unboxing

Web code:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm4.aspx.cs"
Inherits="if23024_pra1.WebForm4" %>

<!DOCTYPE html>

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

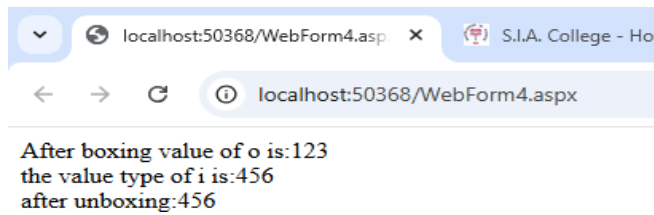
            </div>
            <asp:Label ID="Label2" runat="server" Text="Label"></asp:Label>
            <br />
            <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
            <br />
            <asp:Label ID="Label3" runat="server" Text="Label"></asp:Label>
        </div>
    </form>
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

C# code:

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

namespace if23024_pra1
{
    public partial class WebForm4 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            int i = 123;
            object o = i;
            i = 456;
            int j = (int)o;
            Label1.Text = ("the value type of i is:") + Convert.ToString(i);
            Label2.Text = ("After boxing value of o is:") + Convert.ToString(o);
            Label3.Text = ("after unboxing:") + Convert.ToString(i);
        }
    }
}
```

Output:



b. Create a simple application to perform addition and subtraction using delegate

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

namespace If23001prac1A
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        public delegate int calculate(int a, int b);
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            int num1 = Convert.ToInt16(TextBox1.Text);
            int num2 = Convert.ToInt32(TextBox2.Text);
            calculate calc = add;
            Label3.Text = "result of add:" + calc(num1, num2).ToString();
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            int num1 = Convert.ToInt32(TextBox1.Text);
            int num2 = Convert.ToInt32(TextBox2.Text);
            calculate calc = sub;
            Label3.Text = "result of sub:" + calc(num1, num2).ToString();
        }
        private int add(int a, int b)
        {
            return a + b;
        }
        private int sub(int a, int b)
        {

```

```

        return a - b;
    }
}

```

Web code:

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="If23001prac1A.WebForm2" %>

```

```

<!DOCTYPE html>

```

```

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

```

```

<head runat="server">

```

```

    <title></title>

```

```

</head>

```

```

<body>

```

```

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

```

```

        <div>

```

```

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

```

```

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

```

```

        </div>

```

```

        <p>

```

```

            &nbsp;</p>

```

```

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

```

```

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

```

```

        <p>

```

```

            &nbsp;</p>

```

```

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

```

```

            <br />

```

```

            <br />

```

```

            <asp:Button ID="Button2" runat="server" OnClick="Button2_Click" Text="SUB" />

```

```

        <p>

```

```

            &nbsp;</p>

```

```

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

```

```

        </form>

```

```

</body>

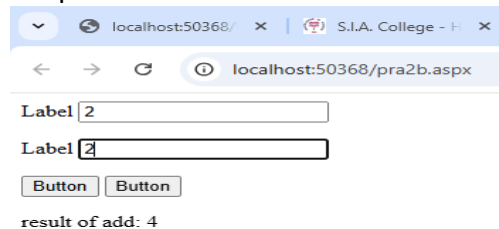
```

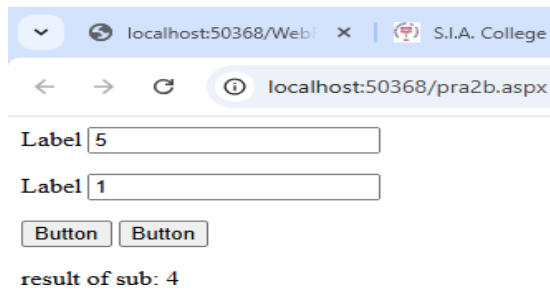
```

</html>

```

Output:





c. Create a simple application to demonstrate use of the concepts of interfaces. Web code:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="pra2c.aspx.cs"
Inherits="if23024_pra1.pra2c" %>

<!DOCTYPE html>

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

            <asp:Label ID="Label1" runat="server" Text="area of a cricle and rectangle
using interface"></asp:Label>

        </div>
        <p>
            are of cricle:<asp:Label ID="Label2" runat="server" Text="are of cricle:
"></asp:Label>
        </p>
        <p>
            area of rect : <asp:Label ID="Label3" runat="server" Text="area of rect :
"></asp:Label>
        </p>
        <p>
            &nbsp;   </p>
    </form>
</body>
</html>
```

C# code:

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

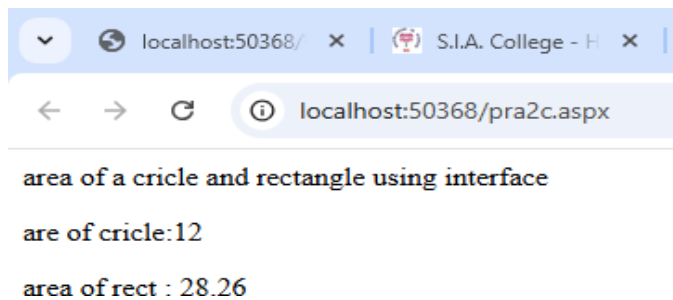
namespace if23024_pra1
{
    public partial class pra2c : System.Web.UI.Page
    {
        interface Area
        {
```

```

        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 s, double t)
        {
            return (3.14 * s * s);
        }
    }
    protected void Page_Load(object sender, EventArgs e)
    {
        Rect r1 = new Rect();
        double x = r1.show(3, 4);
        Circle c1 = new Circle();
        double y = c1.show(3, 4);
        Label2.Text = x.ToString();
        Label3.Text = y.ToString();
    }
}

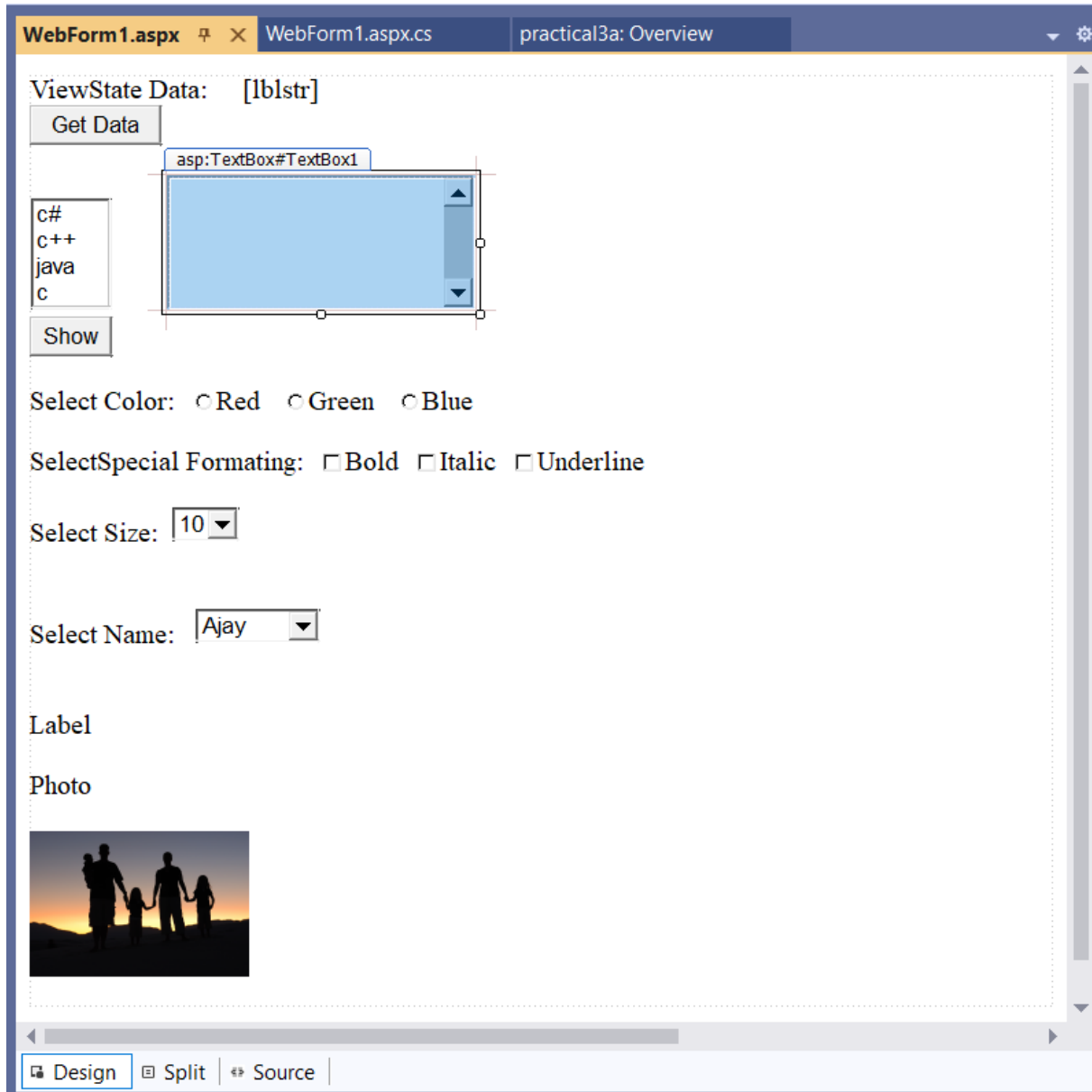
```

Output:



Practical No: 3

3a. Create a simple web page with various server controls to demonstrate setting and use of their properties. (example AutoPostBack)



Pract3a.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="practical3a.WebForm1" %>
```

```
<!DOCTYPE html>
```

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

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

[illegible]


```

<asp:ListItem>Aditya</asp:ListItem>
<asp:ListItem>Anand</asp:ListItem>
<asp:ListItem>Shiv</asp:ListItem>
<asp:ListItem>Saurav</asp:ListItem>
<asp:ListItem>Kartikya</asp:ListItem>
</asp:DropDownList>

<br />

<br />

<br />

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

<br />

<asp:Label ID="Label7" runat="server" Text="Photo"></asp:Label>

<br />

<br />

<asp:Image ID="Image1" runat="server"
ImageUrl="https://upload.wikimedia.org/wikipedia/commons/d/df/Family_Portrait.jpg" Width="160px" />

<br />

<br />

</div>

</form>

</body>

</html>

```

Pract3a.aspx.cs

```

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

```

```

namespace practical3a

```

```

{

```

```

public partial class WebForm1 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!IsPostBack)
        {
            string str = "Ajay";
            if (ViewState["name"] == null)
            {
                ViewState["name"] = str;
            }
        }
    }
    protected void Button1_Click(object sender, EventArgs e)
    {

        lblstr.Text = ViewState["name"].ToString();
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        TextBox1.Text = "";
        for (int i = 0; i < ListBox1.Items.Count;i++)
        {
            if (ListBox1.Items[i].Selected == true)
            {
                TextBox1.Text = TextBox1.Text + "" + ListBox1.Items[i].Text + "\n";
            }
        }
    }
}
protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)

    lblstr.Font.Size = int.Parse(DropDownList1.SelectedItem.Text);
}

```

```
protected void DropDownList2_SelectedIndexChanged(object sender, EventArgs e)
{
    lblstr.Text = DropDownList2.SelectedItem.Text;
}

protected void RadioButton1_CheckedChanged(object sender, EventArgs e)
{
    lblstr.BackColor = System.Drawing.Color.Red;
}

protected void RadioButton2_CheckedChanged(object sender, EventArgs e)
{
    lblstr.BackColor = System.Drawing.Color.Green;
}

protected void RadioButton3_CheckedChanged(object sender, EventArgs e)
{
    lblstr.BackColor = System.Drawing.Color.Blue;
}

protected void CheckBox1_CheckedChanged(object sender, EventArgs e)
{
    lblstr.Font.Bold = true;
}

protected void CheckBox2_CheckedChanged(object sender, EventArgs e)
{
    lblstr.Font.Italic = true;
}

protected void CheckBox3_CheckedChanged(object sender, EventArgs e)
{
    lblstr.Font.Underline = true;
}
}
```

Output:

localhost:44388/WebForm1

localhost:44388/WebForm1

ViewState Data: **Shiv**

Get Data

C#
C++
java
c

Show

java

Select Color: ☒ Red ☐ Green ☐ Blue


Select Special Formatting: ☒ Bold ☐ Italic ☒ Underline

Select Size: 20

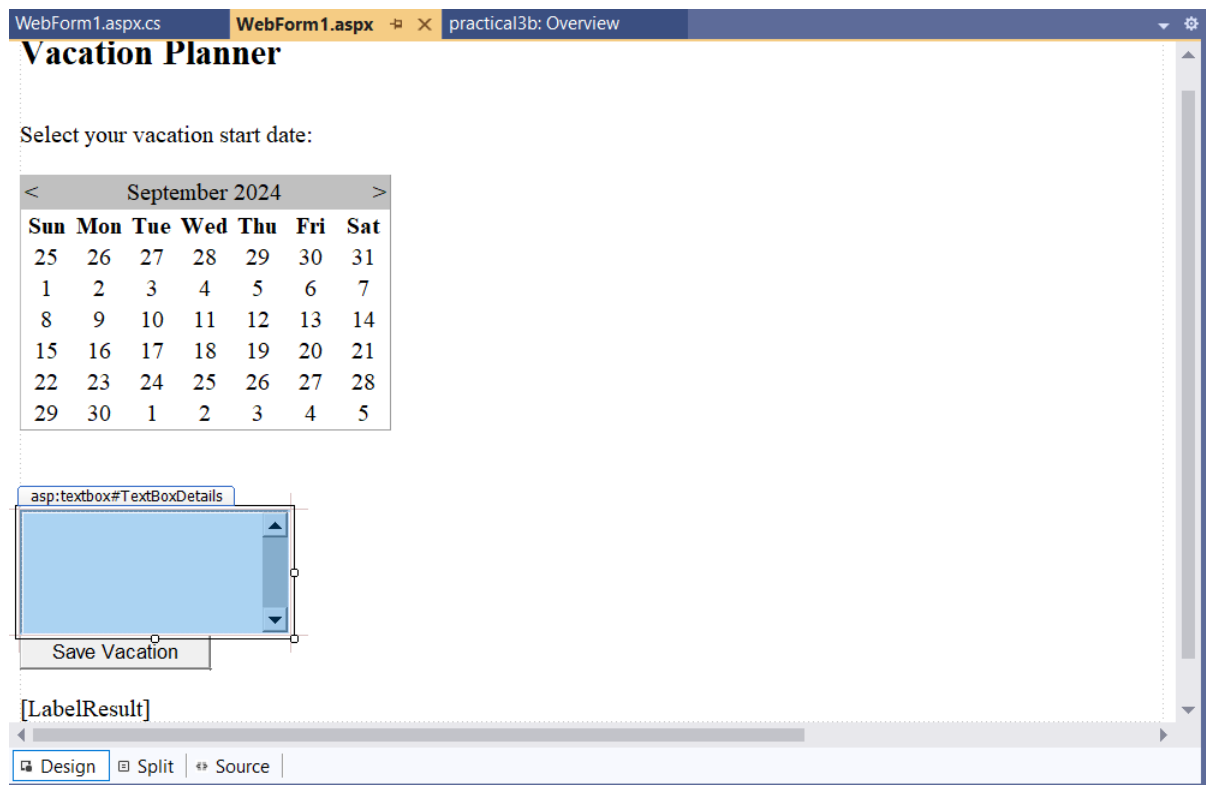
Select Name: Shiv

Label

Photo



3b. Create a simple application to demonstrate your vacation using callender control.



3b.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="practical3b.WebForm1" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<h2> Vacation Planner</h2>
```

```
<br />
```

```
<asp:Label ID="Label1" runat="server" Text="Select your vacation start date:"></asp:Label>
```

```
<br />
```

```

<br />
<asp:Calendar ID="Calendar1" runat="server"
OnSelectionChanged="Calender1_SelectionChanged"></asp:Calendar>
<br />
<br />
<asp:Label ID="Label2" runat="server" Text="Vacation Details:"></asp:Label>
<br />
<asp:TextBox ID="TextBoxDetails" runat="server" Rows="5" TextMode="MultiLine"></asp:TextBox>
<br />
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Save Vacation" />
<br />
<br />
<asp:Label ID="LabelResult" runat="server"></asp:Label>
</div>
</form>
</body>
</html>

```

3b.aspx.cs

```

using Antlr.Runtime.Misc;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

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

```

```

}

protected void Calender1_SelectionChanged(object sender, EventArgs e)
{
    LabelResult.Text = "You selected:" + Calendar1.SelectedDate.ToShortDateString();
}

protected void Button1_Click(object sender, EventArgs e)
{
    string vacationDate = Calendar1.SelectedDate.ToShortDateString();
    string vacationDetails = TextBoxDetails.Text;
    if (string.IsNullOrEmpty(vacationDetails))
    {
        LabelResult.Text = "Please enter vacation details.";
    }
    else
    {
        LabelResult.Text = $"Vacation on {vacationDate}:{vacationDetails}";
    }
}
}
}
}

```

Output:



Vacation Planner

Select your vacation start date:

September 2024						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	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

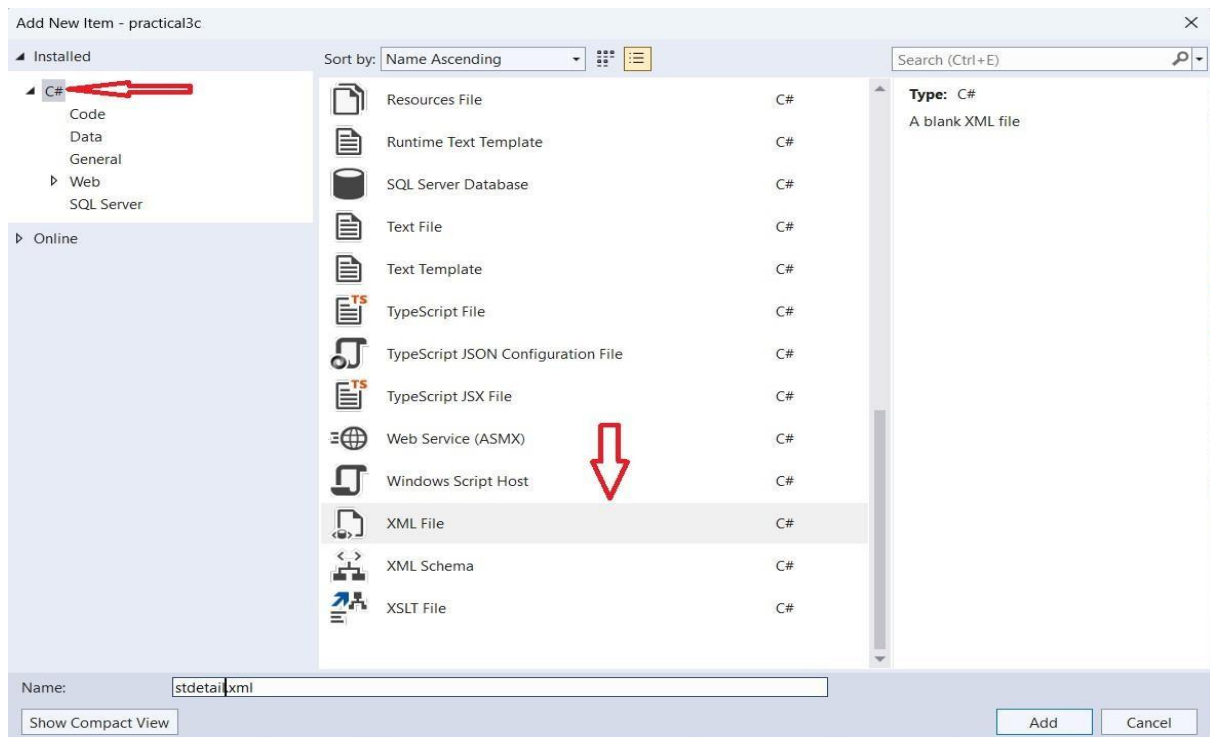
Vacation Details:

Save Vacation

Vacation on 16-09-2024:ajay sir birthday

3c. Demonstrate the use of treeview operations on the web form.

Step1:



Stdetail.xml:

```
<?xml version="1.0" encoding="utf-8" ?>
```

```
<studentdetail>
```

```
  <student>
```

```
    <sid>1</sid>
```

```
    <sname>Saurav</sname>
```

```
    <sclass>TYIT</sclass>
```

```
  </student>
```

```
  <student>
```

```
    <sid>2</sid>
```

```
    <sname>Anand</sname>
```

```
    <sclass>TYCS</sclass>
```

```
  </student>
```

```
  <student>
```

```
    <sid>3</sid>
```

```
    <sname>Aditya</sname>
```


<class>TYIT</class>

</student>

<student>

<sid>4</sid>

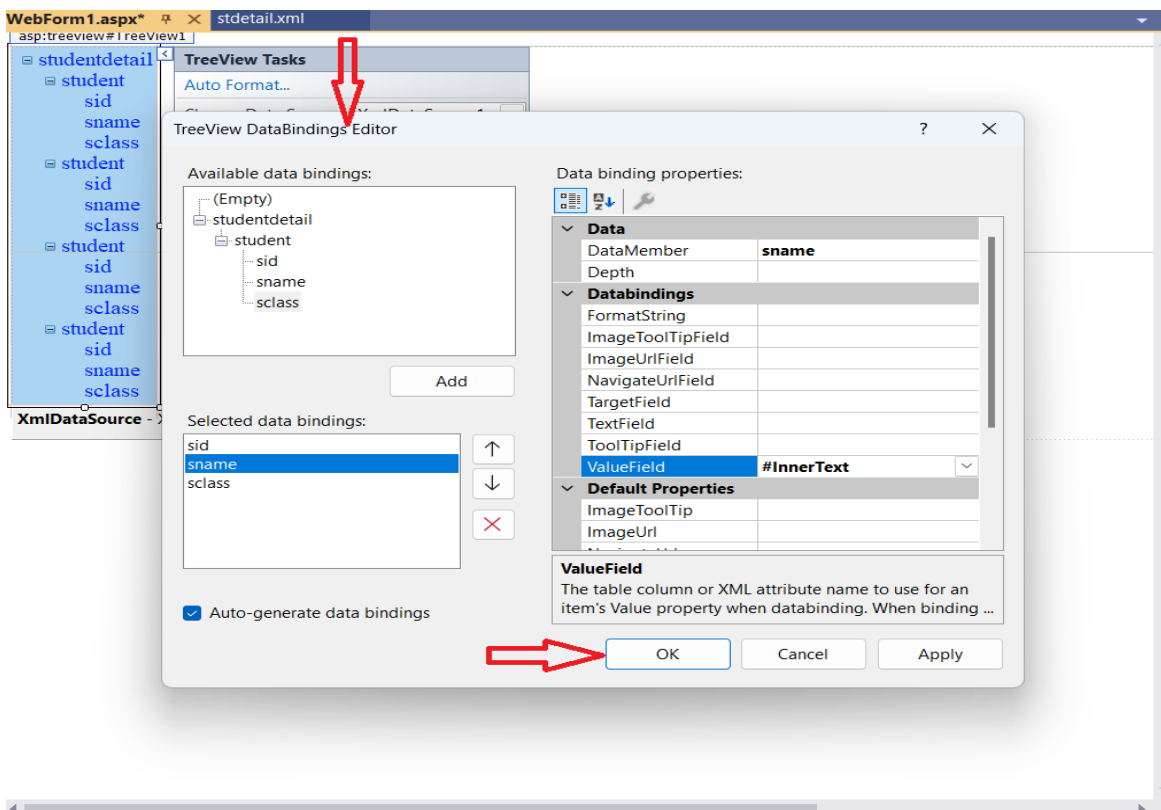
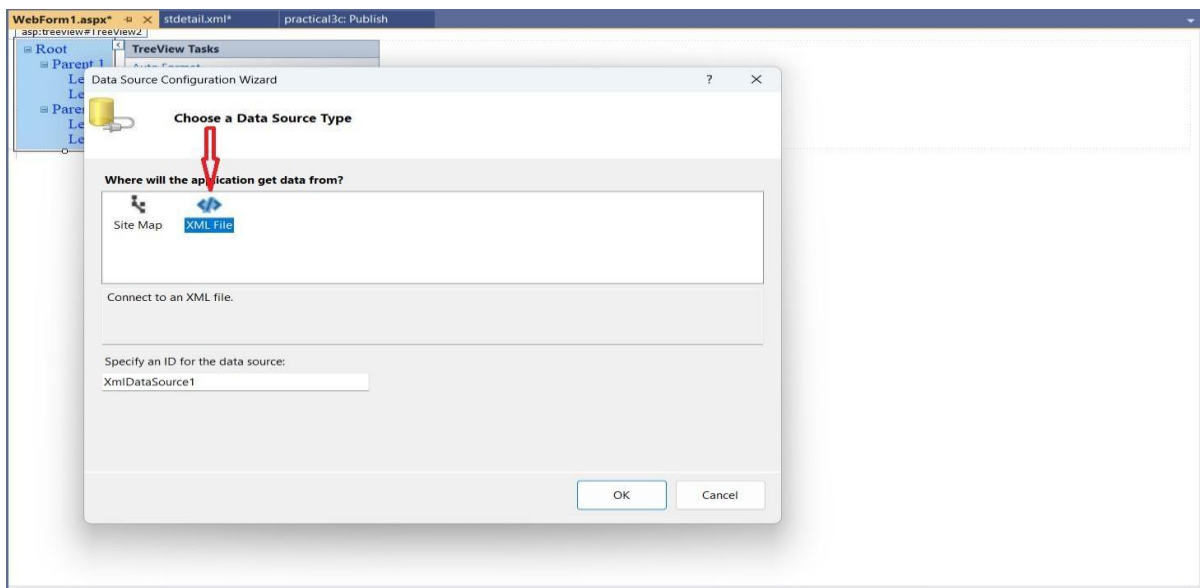
<sname>Shiv</sname>

<class>TYCS</class>

</student>

</studentdetail>

Step2:



3c.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="practical3c.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body style="z-index: 1; width: 1387px; height: 218px; position: absolute; top: 0px; left: 0px">
<form id="form1" runat="server">
<div>
<asp:TreeView ID="TreeView1" runat="server" DataSourceID="XmlDataSource1">
<DataBindings>
<asp:TreeNodeBinding DataMember="sid" ValueField="#InnerText" />
<asp:TreeNodeBinding DataMember="sname" ValueField="#InnerText" />
<asp:TreeNodeBinding DataMember="sclass" ValueField="#InnerText" />
</DataBindings>
</asp:TreeView>
<asp:XmlDataSource ID="XmlDataSource1" runat="server"
DataFile="~/stdetail.xml"></asp:XmlDataSource>
</div>
</form>
</body>
</html>
```

Pract3c.aspx.cs:

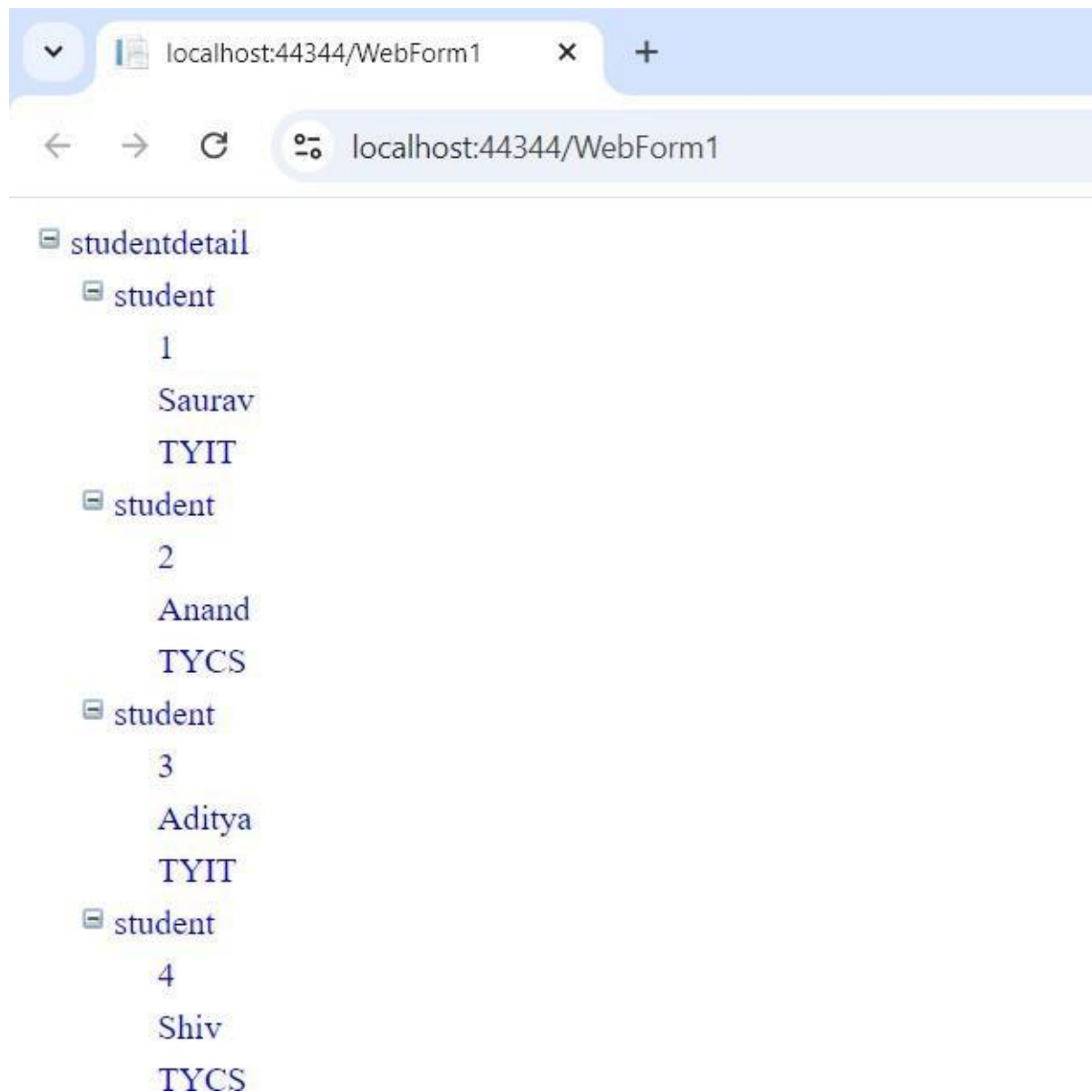
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
```

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

```
namespace practical3c
```

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

Output:



Practical no: 4

Q4a) Create a Registration form to demonstrate use of various Validation controls.

Prac4a.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="prac4a.aspx.cs"  
Inherits="prac4_40.prac4a" %>  
  
<!DOCTYPE html>  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
    <title>Validation Example</title>  
</head>  
<body>  
    <form id="form1" runat="server">  
        <div>  
  
            <!-- Name Field -->  
            <asp:Label ID="Label1" runat="server" Text="Enter Name:"></asp:Label>  
            &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;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~::~  
            <asp:TextBox ID="Txtname" runat="server"></asp:TextBox>  
            <asp:RequiredFieldValidator ID="reqname" runat="server"  
ControlToValidate="Txtname"  
                ErrorMessage="Please enter name!!"  
ForeColor="Red"></asp:RequiredFieldValidator>  
  
            <br /><br />  
  
            <!-- Age Field -->  
            <asp:Label ID="Label2" runat="server" Text="Enter Age:"></asp:Label>  
            <asp:TextBox ID="txtage" runat="server" Height="19px"  
Width="134px"></asp:TextBox>  
            <asp:RangeValidator ID="RangeValidator1" runat="server"  
ControlToValidate="txtage"  
                ErrorMessage="Invalid Age!!" ForeColor="Red" MinimumValue="18"  
MaximumValue="50" Type="Integer" />  
  
            <br /><br />  
  
            <!-- Email Field -->  
            <asp:Label ID="Label3" runat="server" Text="Enter email:"></asp:Label>  
            &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~::~  
            <asp:TextBox ID="txtemail" runat="server"></asp:TextBox>  
            <asp:RegularExpressionValidator ID="RegularExpressionValidator1"  
runat="server" ControlToValidate="txtemail"  
                ErrorMessage="Invalid Email!!" ForeColor="Red"  
ValidationExpression="^[^@\s]+@[^\s]+\.[^\s]+$" />  
  
            <br /><br />  
  
            <!-- Password Field -->  
            <asp:Label ID="Label4" runat="server" Text="Enter Password:"></asp:Label>  
            &nbsp;&nbsp;&nbsp;&nbsp;&~:::
```

```

        <asp:TextBox ID="txtpass" runat="server"
TextMode="Password"></asp:TextBox>
        &nbsp;
        <asp:CustomValidator ID="CustomValidator1" runat="server"
ControlToValidate="txtpass"
        OnServerValidate="Passwordlen_ServerValidate"
        ErrorMessage="Password should be at least 6 characters"
ForeColor="Red" />

        <br /><br />

        <!-- Submit Button -->
        <asp:Button ID="Button1" runat="server" Text="Validate"
OnClick="Button1_Click" />

        <br /><br />

        <!-- Result Label -->
        <asp:Label ID="Label5" runat="server" Text=""></asp:Label>

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

```

Prac4a.aspx.cs

```

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

namespace prac4_40
{
    public partial class prac4a : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            if (Page.IsValid)
            {
                Label5.Text = "Thank You";
            }
            else
            {
                Label5.Text = "There are few issues...";
            }
        }

        protected void Passwordlen_ServerValidate(object source,
ServerValidateEventArgs args)
        {
            if (args.Value.Length >= 6)
            {
                args.IsValid = true;
            }
            else

```

```

    {
        args.IsValid = false;
    }
}
}

```

Design

The screenshot shows the Design view of a web application in Visual Studio. The form contains four text boxes for user input, each with a corresponding validation error message in red text to its right:

- Enter Name:** The text box is empty, and the error message is "Please enter name!!".
- Enter Age:** The text box is empty, and the error message is "Invalid Age!!".
- Enter email:** The text box is empty, and the error message is "Invalid Email!!".
- Enter Password:** The text box is empty, and the error message is "Password should be at least 6 characters".

Below the text boxes is a "Validate" button. At the bottom of the form, there is a label "[Label5]".

This screenshot shows a web form with four text boxes and a "Validate" button. The "Enter email:" text box is highlighted in blue, and the error message "Invalid Email!!" is displayed in red text to its right. The other text boxes are also highlighted in blue but do not have error messages.

This screenshot shows a web form with four text boxes and a "Validate" button. The "Enter email:" text box is highlighted in blue, and the error message "Invalid Email!!" is displayed in red text to its right. The other text boxes are also highlighted in blue but do not have error messages.

Thank You

Q4b) Create Web Form to demonstrate use of Adrotator Control

Prac4b.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="prac4b.aspx.cs"
Inherits="prac4_40.prac4b" %>

<!DOCTYPE html>

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

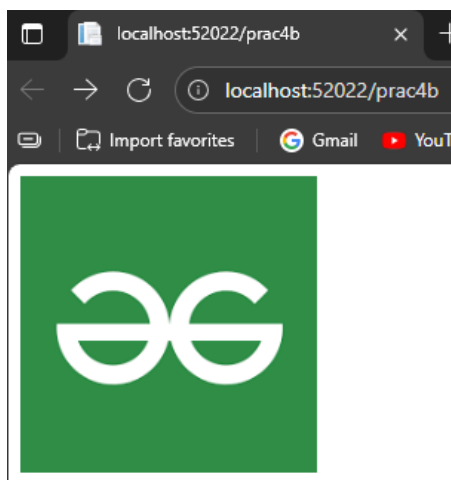
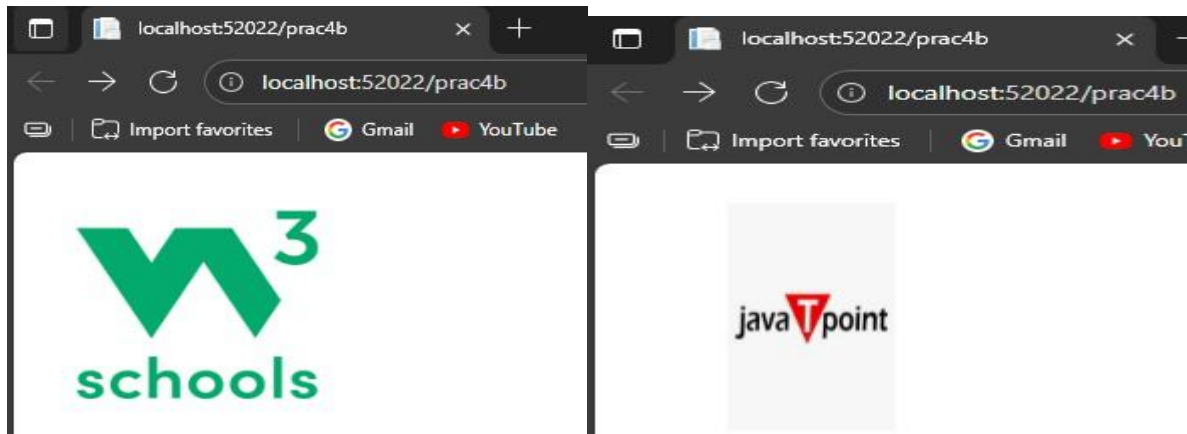
            <asp:ScriptManager ID="ScriptManager1" runat="server">
</asp:ScriptManager>

        </div>
        <asp:Timer ID="Timer1" runat="server">
</asp:Timer>
        <asp:UpdatePanel ID="UpdatePanel1" runat="server">
            <Triggers>
                <asp:AsyncPostBackTrigger ControlID="Timer1" EventName="Tick">
</asp:AsyncPostBackTrigger>
            </Triggers>
            <ContentTemplate>
                <asp:AdRotator ID="AdRotator1" runat="server"
AdvertisementFile="~/prac4b.xml" Height="200px" Width="200px"/>
            </ContentTemplate>
        </asp:UpdatePanel>
    </form>
</body>
</html>
```

Prac4b.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
    <Ad>
        <ImageUrl>Images/w3schools.jpg</ImageUrl>
        <NavigateUrl>https://www.w3schools.com/</NavigateUrl>
        <AlternateText>W3Schools</AlternateText>
    </Ad>
    <Ad>
        <ImageUrl>Images/javatpoint.png</ImageUrl>
        <NavigateUrl>https://www.tpointtech.com/</NavigateUrl>
        <AlternateText>JavaTpoint</AlternateText>
    </Ad>
    <Ad>
        <ImageUrl>Images/geeks4geeks.png</ImageUrl>
        <NavigateUrl>https://www.geeksforgeeks.org/</NavigateUrl>
```

```
<AlternateText>JavaTpoint</AlternateText>
</Ad>
</Advertisements>
```



Practical No: 05

5a) Create Web form demonstrate use of Website Navigation controls and site map

1) WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication26.WebForm1" %>

<!DOCTYPE html>

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

            <asp:SiteMapPath ID="SiteMapPath1" runat="server">
</asp:SiteMapPath>
            <br />
            <br />
            <asp:Menu ID="Menu1" runat="server" DataSourceID="SiteMapDataSource1"
OnMenuItemClick="Menu1_MenuItemClick">
</asp:Menu>
            <br />
            <asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" />
            <br />

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

2) WebForm2.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication26.WebForm2" %>

<!DOCTYPE html>

<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 /> Welcome to online Store

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

```

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

```

3) WebForm3.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
Inherits="WebApplication26.WebForm3" %>

```

```

<!DOCTYPE html>

<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 /> Hi Welcome to Online Shopping :Mobiles

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

```

4) Web.config

```

<?xml version="1.0" encoding="utf-8"?>
<!--
    For more information on how to configure your ASP.NET application, please visit
    http://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
    <system.web>
        <siteMap>
            <providers>
                <remove name="MySqlSiteMapProvider"/>
            </providers>
        </siteMap>

        <compilation debug="true" targetFramework="4.5.2"/>
        <httpRuntime targetFramework="4.5.2"/>
        <httpModules>
            <add name="ApplicationInsightsWebTracking"
type="Microsoft.ApplicationInsights.Web.ApplicationInsightsHttpModule,
Microsoft.AI.Web"/>
        </httpModules>
    </system.web>
    <system.codedom>
        <compilers>
            <compiler language="c#;cs;csharp" extension=".cs"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=1.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35"
warningLevel="4" compilerOptions="/langversion:6 /nowarn:1659;1699;1701"/>

```

```

        <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"
            type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=1.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35"
            warningLevel="4" compilerOptions="/langversion:14 /nowarn:41008
/define:_MYTYPE=\"Web\" /optionInfer+"/>
        </compilers>
    </system.codedom>
    <system.webServer>
        <validation validateIntegratedModeConfiguration="false"/>
        <modules>
            <remove name="ApplicationInsightsWebTracking"/>
            <add name="ApplicationInsightsWebTracking"
type="Microsoft.ApplicationInsights.Web.ApplicationInsightsHttpModule,
Microsoft.AI.Web"
            precondition="managedHandler"/>
        </modules>
    </system.webServer>
</configuration>

```

5) Web.sitemap

```

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

```

Output:

Home

Home ► Second Page
Third Page

Home > Second Page
Welcome to Online Store

Home > Third Page
Hi welcome to online shopping :Mobiles

5b) create a web page to demonstrate use of master page

1) WebForm1.aspx

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication29.WebForm1" Theme="Skin1"%>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

```

```

    <asp:Label ID="Label1" runat="server" SkinId="lb1" Text="Select The
Date"></asp:Label>
    <br />
    <asp:Calendar ID="Calendar1" runat="server"></asp:Calendar>
    <br />
    <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/WebForm2.aspx">Next</asp:HyperLink>
</asp:Content>

```

2) WebForm2.aspx

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm2.aspx.cs" Inherits="WebApplication29.WebForm2" Theme="Skin1" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <asp:Label ID="Label1" runat="server" Text="Label" SkinId="lb1"></asp:Label>
</asp:Content>

```

3) Skin1.skin

```

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

```

4) Stylesheet1.css

```

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

```

5) Site1.Master

```

<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"
Inherits="WebApplication29.Site1" %>

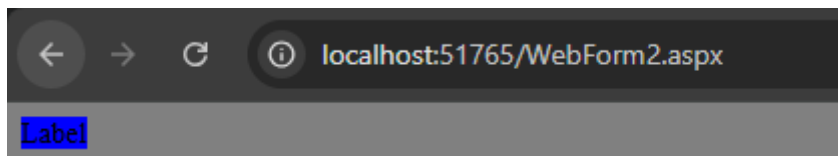
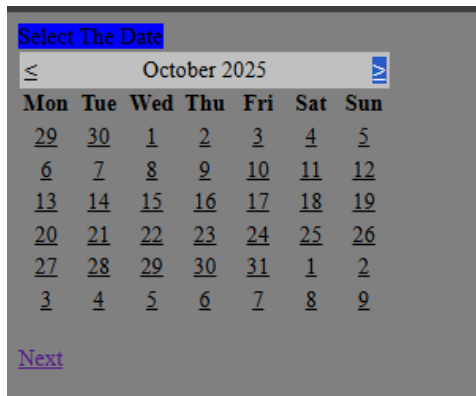
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <asp:ContentPlaceHolder ID="head" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body>
    <link href="StyleSheet1.css" rel="stylesheet" type="text/css"/>
    <form id="form1" runat="server">
    <div>
        <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">

            </asp:ContentPlaceHolder>
        </div>
    </form>
</body>
</html>

```

Output:



5C) Create a web application to demonstrate various states of asp.net pages.

1)WebForm1.aspx.cs

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

namespace WebApplication50
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void TextBox1_TextChanged(object sender, EventArgs e)
        {
            if (IsPostBack)
            {
                if (ViewState["count"] != null)
                {
                    int ViewstateVal = Convert.ToInt32(ViewState["count"]) + 1;
                    Label2.Text = "View State:" + ViewstateVal.ToString();
                    ViewState["count"] = ViewstateVal.ToString();
                }
                else

```

```

        {
            ViewState["count"] = "1";
        }
    }
}

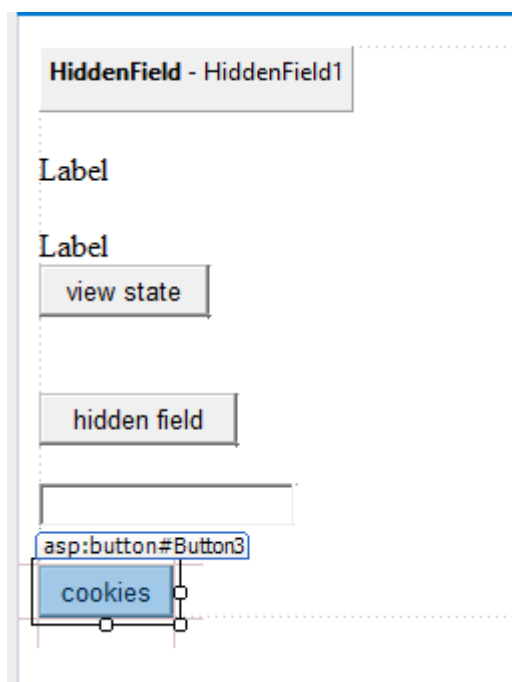
protected void Button1_Click(object sender, EventArgs e)
{
    Label1.Text = ViewState["count"].ToString();
}

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

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

```

2) WebForm1.aspx



3) WebForm2.aspx.cs

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

namespace WebApplication50
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Request.Cookies["name"] != null)
                Response.Write("Welcome: " + Request.Cookies["name"].Value);
        }
    }
}
```

Output:

Welcome: Students

1

Label

view state

hidden field

Students

cookies

Practical no – 6

- a. Create a web application for inserting and deleting records from a database

WebForm1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="_6a.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <asp:Label ID="Label1" runat="server" Text="Enter Your Id: "></asp:Label>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <div>
            <br />
            <asp:Label ID="Label2" runat="server" Text="Enter Your Name:"></asp:Label>
            <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="view"
/>
            <asp:Button ID="Button2" runat="server" Text="insert" OnClick="Button2_Click"
/>
            <asp:Button ID="Button4" runat="server" Text="Delete"
OnClick="Button4_Click" />
            <br />
            <br />
            <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="Id" DataSourceID="SqlDataSource1">
                <Columns>
                    <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
                    <asp:BoundField DataField="Name" HeaderText="Name"
SortExpression="Name" />
                </Columns>
            </asp:GridView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%= $ConnectionStrings:ConnectionString %>"
SelectCommand="SELECT * FROM [test]"></asp:SqlDataSource>
```



```

        <br />
        <asp:Label ID="Label3" runat="server" Height="75px" Text=" "
Width="250px"></asp:Label>
    </div>
</form>
</body>
</html>

```

WebForm1.aspx.cs:

```

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

namespace _6a
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlCommand cmd = new SqlCommand();
        SqlDataReader rd;
        SqlDataSource con = new SqlDataSource();
        protected void Page_Load(object sender, EventArgs e)
        {
            con.ConnectionString = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.m
df;Integrated Security=True;";
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            con.SelectCommand = "Select * from test";
            GridView1.DataBind();
        }

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

```

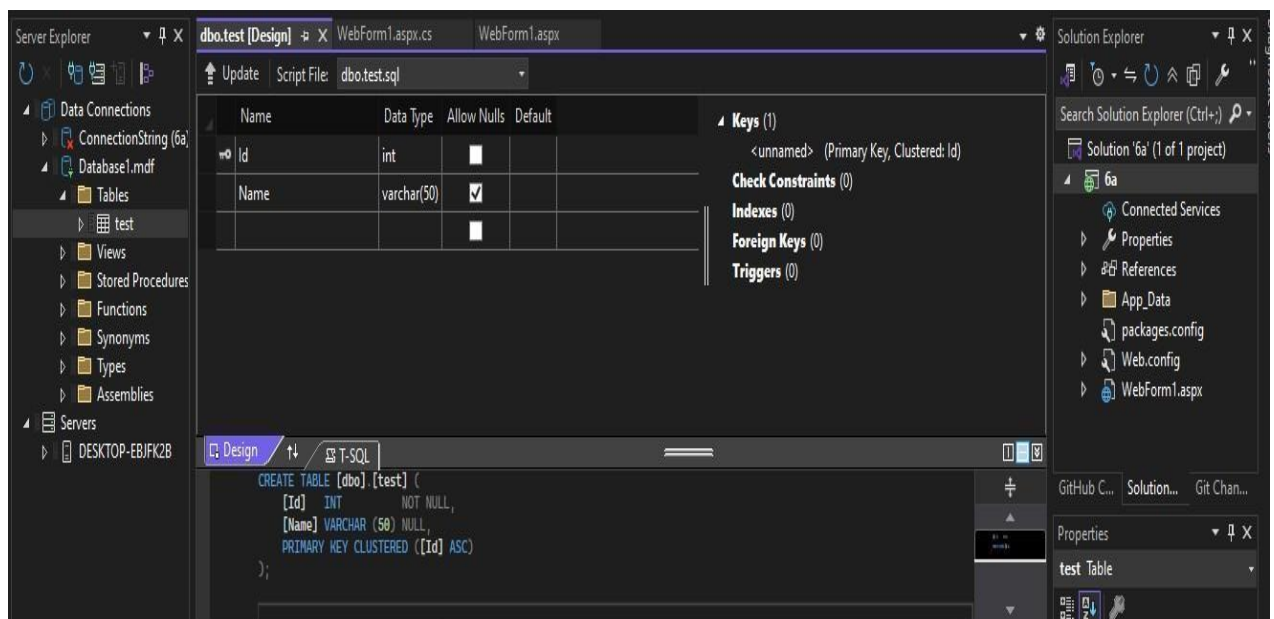
```

    }

protected void Button3_Click(object sender, EventArgs e)
{
    SqlParameter p1 = new SqlParameter();
    SqlParameter p2 = new SqlParameter();
    con.UpdateParameters.Add("p1", System.Data.DbType.Int32, TextBox1.Text);
    con.UpdateParameters.Add("p2", System.Data.DbType.String, TextBox2.Text);
    con.UpdateCommand = "update test set name=@p2 where id=@p1;";
    con.Update();
}

protected void Button4_Click(object sender, EventArgs e)
{
    SqlParameter p1 = new SqlParameter();
    SqlParameter p2 = new SqlParameter();
    con.DeleteParameters.Add("p1", System.Data.DbType.Int32, TextBox1.Text);
    con.DeleteCommand = "delete test where id=@p1;";
    con.Delete();
}
}
}
}

```



Output:

Enter Your Id:

Enter Your Name:

Id	Name
1	abc
2	abcd

Enter Your Id:

Enter Your Name:

Id	Name
1	abc
2	abcd
23001	Aman

6b. Create a web application to display Using Disconnected Data Access and Databinding using GridView.

WebForm1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="_6b.WebForm1" %>
```

```

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:GridView ID="GridView1" runat="server">
            </asp:GridView>
        </div>
        <p>
            <asp:Button ID="Button1" runat="server"
OnClick="Button1_Click" Text="Button" />
        </p>
    </form>
</body>
</html>

```

WebForm1.aspx.cs:

```

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

namespace _6b
{
    public partial class WebForm1 : System.Web.UI.Page
    {

```

```
SqlConnection con = new SqlConnection("Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=C:\\Users\\s
upri\\source\\repos\\6b\\6b\\App_Data\\Database1.mdf;Integrated
Security=True");
```

```
SqlDataAdapter da;
```

```
DataSet ds = new DataSet();
```

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

```
{
```

```
}
```

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

```
{
```

```
da = new SqlDataAdapter("SELECT * FROM [Table]", con);
```

```
int v = da.Fill(ds, "Table");
```

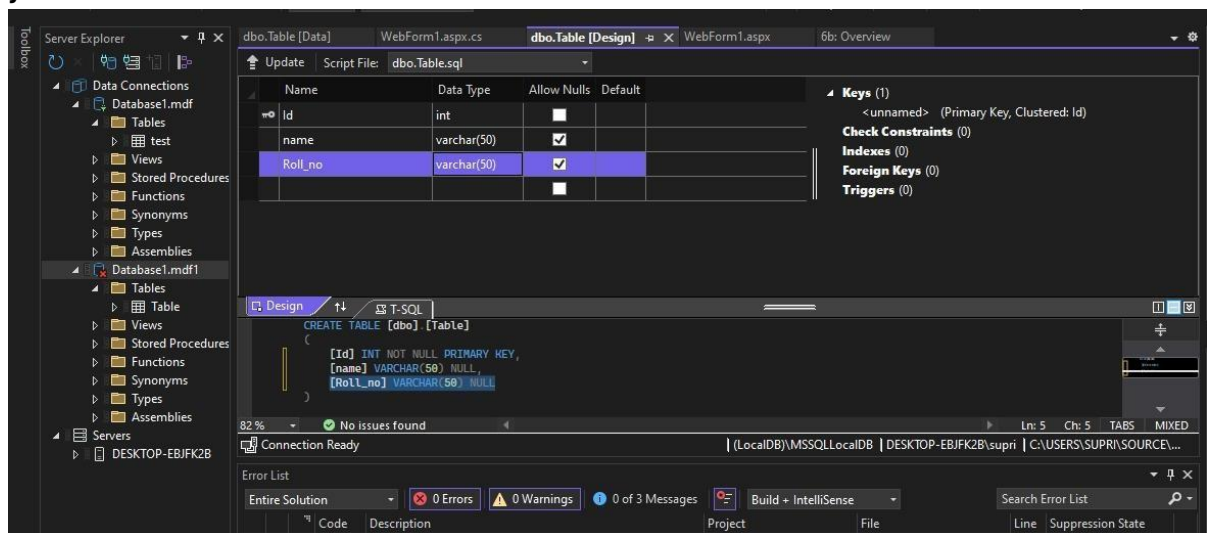
```
GridView1.DataSource = ds;
```

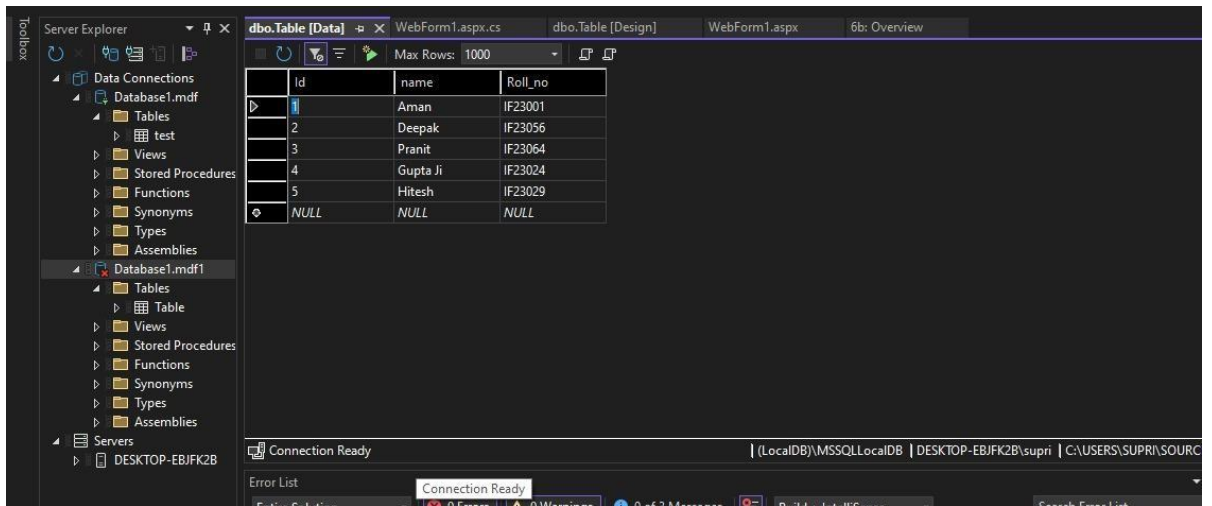
```
GridView1.DataBind();
```

```
}
```

```
}
```

```
}
```





Output:

Button

Id	name	Roll_no
1	Aman	IF23001
2	Deepak	IF23056
3	Pranit	IF23064
4	Gupta Ji	IF23024
5	Hitesh	IF23029

Button

Practical no. 7

- a. Create a web application to demonstrate the use of different types of Cookies.

aspx code :

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="Label1" runat="server" Text="Practical - 7"
Width="657px"></asp:Label>
            <br />
            <br />
            <asp:Label ID="Label2" runat="server" Text="Name"></asp:Label>
            :&nbsp;
            <asp:TextBox ID="TextBox1" runat="server" Height="16px"
Width="299px"></asp:TextBox>
            <br />
            <br />
            <asp:Label ID="Label3" runat="server"
Text="Email"></asp:Label>
            &nbsp;:
            <asp:TextBox ID="TextBox2" runat="server"
Width="303px"></asp:TextBox>
            <br />
            <br />
            <asp:Button ID="Button1" runat="server"
OnClick="Button1_Click" Text="Session cookies" />
            <asp:Button ID="Button2" runat="server"
OnClick="Button2_Click" Text="Persistent cookies" />
            <br />
            <br />
            <asp:Button ID="Button3" runat="server"
OnClick="Button3_Click" Text="Read all cookies" />
            <asp:Button ID="Button4" runat="server"
OnClick="Button4_Click" Text="Delete cookies" />
            <br />
            <br />
            <br />
            <asp:Label ID="Label4" runat="server" Height="99px" Text=" "
Width="282px"></asp:Label>
            <br />
        </div>
```

```

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

```

aspx.cs code :

```

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

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

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Cookies["SessionCookie"].Value = TextBox1.Text;
            Label4.Text = "Session Cookies Created";
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Cookies["PersistentCookie"].Value = TextBox2.Text;
            Response.Cookies["PersistentCookie"].Expires = 
DateTime.Now.AddMinutes(2);
            Label4.Text = "Persistent Cookies Created";
        }

        protected void Button3_Click(object sender, EventArgs e)
        {
            string result = "";
            if (Request.Cookies["SessionCookie"] != null)
            {
                result += "Session Cookies:" + 
Request.Cookies["SessionCookie"].Value + "<br>";
                result += "Path: " + Request.Cookies["SessionCookie"].Path + 
"<br>";
                result += "Path: " + Request.Cookies["SessionCookie"].Value.Length 
+ "<br>";
            }
            else
            {
                result += " Session Cookies Not Found<br>";
            }

            if (Request.Cookies["PersistentCookie"] != null)
            {
                result += "Persistent Cookies: " + 
Request.Cookies["PersistentCookie"].Value + "<br>";
                result += "Expiry: " + DateTime.Now.AddMinutes(2).ToString() + " 
<br>";
            }
        }
    }
}

```



```

        result += "Path: " + Request.Cookies["PersistentCookie"].Path +
"<br>";
        result += "Path: " +
Request.Cookies["PersistentCookie"].Value.Length + "<br>";
    }
    else
    {
        result += "Persistent Cookies Not Found";
    }
    Label4.Text = result;
}

protected void Button4_Click(object sender, EventArgs e)
{
    string result = "";
    if (Request.Cookies["SessionCookie"] != null)
    {
        Response.Cookies["SessionCookie"].Expires = DateTime.Now.AddDays(-
1);
        result += "Session Cookie deleted<br>";
    }
    else
    {
        result += "Session Cookie not found<br>";
    }

    if (Request.Cookies["PersistentCookie"] != null)
    {
        Response.Cookies["PersistentCookie"].Expires =
DateTime.Now.AddDays(-1);
        result += "Persistent Cookie deleted<br>";
    }
    else
    {
        result += "Persistent Cookie not found<br>";
    }

    Label4.Text = result;
}
}
}

```

Output :

Practical - 7

Name :

Email :

Session Cookies:raju

Path: /

Path: 4

Persistent Cookies: raj@gmail.com

Expiry: 26-09-2025 13:51:06

Path: /

Path: 13

b. Create a web application to demonstrate form security and window security with proper authentication and authorization properties

Code:

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

namespace _7b
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["username"] != null)
                Response.Redirect("home.aspx");
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            string username = TextBox1.Text;
            string password = TextBox2.Text;
            if (username == "admin" && password == "admin")
            {
                Session["username"] = username;
                Response.Redirect("WebForm2.aspx");
            }
            else
            {
                Label3.Text = "Username or password is incorrect... ";
            }
        }
    }
}
```

Apsx code:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="_7b.WebForm1" %>

<!DOCTYPE html>

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

```

        <asp:Label ID="Label2" runat="server" Text="password"></asp:Label>
&nbsp;:
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
        <br />
        <br />
        <asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="Login" />
        <br />
        <asp:Label ID="Label3" runat="server" Height="85px" Text=" "
Width="200px"></asp:Label>
        <br />
    </div>
</form>
</body>
</html>

```

Second file cs code:

```

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

namespace _7b
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                if (Session["username"] == null)
                {
                    Response.Redirect("WebForm1.aspx"); // Redirect to login if not
logged in
                }
                else
                {
                    Label1.Text = "Welcome, " + Session["username"].ToString();
                }
            }
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Session.Abandon(); // clear session
            Response.Redirect("WebForm1.aspx");
        }
    }
}

```

Aspx:

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="home.aspx.cs"
Inherits="_7b.WebForm2" %>

<!DOCTYPE html>

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

```

```
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <asp:Label ID="Label1" runat="server" Height="17px" Text="  "
Width="200px"></asp:Label>
      <br />
      <br />
      <asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="logout" />
    </div>
  </form>
</body>
</html>
```

Output:

username :

password :

Login

Welcome, admin

logout

Practical No. 8

8a) Create a web application for inserting and deleting records from a database. (Using ExecuteNon Query)

WebForm1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="_8a.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <asp:Label ID="Label1" runat="server" Text="Enter Your Id: "></asp:Label>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <div>
            <br />
            <asp:Label ID="Label2" runat="server" Text="Enter Your Name:"></asp:Label>
            <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="view"
/>
            <asp:Button ID="Button2" runat="server" Text="insert" OnClick="Button2_Click"
/>
            <asp:Button ID="Button4" runat="server" Text="Delete"
OnClick="Button4_Click" />
            <br />
            <br />
            <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="Id" DataSourceID="SqlDataSource1">
                <Columns>
                    <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
                    <asp:BoundField DataField="Name" HeaderText="Name"
SortExpression="Name" />
                </Columns>
            </asp:GridView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%%$ ConnectionStrings:ConnectionString %>"
SelectCommand="SELECT * FROM [test]"></asp:SqlDataSource>
```

```

        <br />
        <asp:Label ID="Label3" runat="server" Height="75px" Text=" "
Width="250px"></asp:Label>
    </div>
</form>
</body>
</html>

```

WebForm1.aspx.cs:

```

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

namespace _8a
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlCommand cmd = new SqlCommand();
        SqlDataReader rd;
        SqlDataSource con = new SqlDataSource();
        protected void Page_Load(object sender, EventArgs e)
        {
            con.ConnectionString = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.m
df;Integrated Security=True;";
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            con.SelectCommand = "Select * from test";
            GridView1.DataBind();
        }

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

```

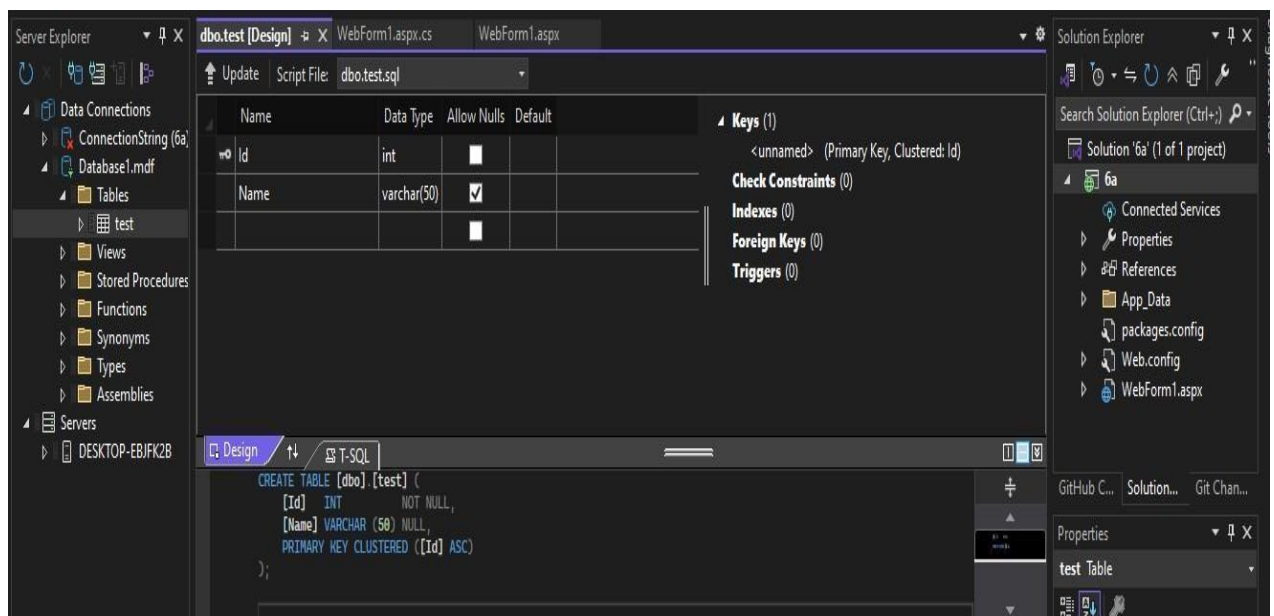
```

    }

    protected void Button3_Click(object sender, EventArgs e)
    {
        SqlParameter p1 = new SqlParameter();
        SqlParameter p2 = new SqlParameter();
        con.UpdateParameters.Add("p1", System.Data.DbType.Int32, TextBox1.Text);
        con.UpdateParameters.Add("p2", System.Data.DbType.String, TextBox2.Text);
        con.UpdateCommand = "update test set name=@p2 where id=@p1;";
        con.Update();
    }

    protected void Button4_Click(object sender, EventArgs e)
    {
        SqlParameter p1 = new SqlParameter();
        SqlParameter p2 = new SqlParameter();
        con.DeleteParameters.Add("p1", System.Data.DbType.Int32, TextBox1.Text);
        con.DeleteCommand = "delete test where id=@p1;";
        con.Delete();
    }
}
}
}

```



Output:

Enter Your Id:

Enter Your Name:

Id	Name
1	abc
2	abcd

Enter Your Id:

Enter Your Name:

Id	Name
1	abc
2	abcd
23001	Aman

8b) Create a web application for user defined exception handling.

aspx file :

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="_8b.WebForm1" %>

<!DOCTYPE html>

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

aspx.cs file :

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

```

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

namespace _8b
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            try
            {
                throw new UserDefinedException("New userdefined exception");

            }
            catch(Exception ex)
            {
                Label1.Text = "Exception caught here" + ex.ToString();
            }
            Label2.Text = "Final statement that is executed";
        }
        class UserDefinedException : Exception
        {
            public UserDefinedException(String str)
            {
                Console.WriteLine("User defined Ecxeption");
            }
        }
        class HandledException

```

```
{  
    public static void main() {}  
  
}  
  
}
```

Output:



Practical no. 9

- A) Create a web application to demonstrate use of GridView button column and GridView events along with paging and sorting.

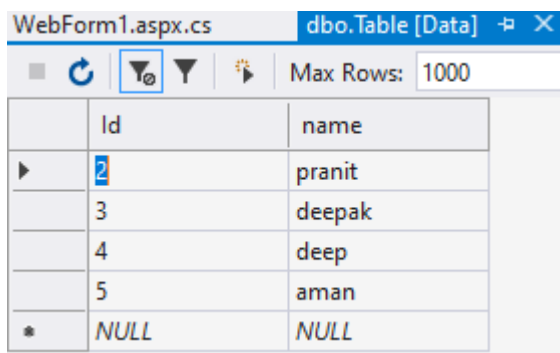
aspx code :

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication31.WebForm1" %>

<!DOCTYPE html>

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

            </div>
            <asp:GridView ID="GridView1" runat="server" AllowPaging="True"
AllowSorting="True" AutoGenerateColumns="False" DataKeyNames="Id"
DataSourceID="SqlDataSource1" PageSize="2">
                <Columns>
                    <asp:BoundField DataField="Id" HeaderText="Id"
ReadOnly="True" SortExpression="Id" />
                    <asp:BoundField DataField="name" HeaderText="name"
SortExpression="name" />
                </Columns>
            </asp:GridView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>"
SelectCommand="SELECT [Id], [name] FROM [Table]"></asp:SqlDataSource>
        </form>
    </body>
</html>
```



	Id	name
▶	2	pranit
	3	deepak
	4	deep
	5	aman
*	NULL	NULL

Output :

← → ↻ ⓘ localhost:49949/		← → ↻ ⓘ localhost:49949/V	
<u>Id</u>	<u>name</u>	<u>Id</u>	<u>name</u>
2	pranit	4	deep
3	deepak	5	aman
1	2	1	2

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

aspx code :

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication31.WebForm2" %>

<!DOCTYPE html>

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

            </div>
            <asp:DetailsView ID="DetailsView1" runat="server" AutoGenerateRows="False"
DataKeyNames="Id" DataSourceID="SqlDataSource1" Height="50px" Width="125px">
                <Fields>
                    <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
                    <asp:BoundField DataField="name" HeaderText="name"
SortExpression="name" />
                </Fields>
            </asp:DetailsView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionString:ConnectionString %>" SelectCommand="SELECT [Id], [name] FROM
[Table]"></asp:SqlDataSource>
            <br />
            <asp:FormView ID="FormView1" runat="server" DataKeyNames="Id"
DataSourceID="SqlDataSource1">
                <EditItemTemplate>
                    Id:
                    <asp:Label ID="IdLabel1" runat="server" Text='<%# Eval("Id") %>' />
                    <br />
                    name:
                    <asp:TextBox ID="nameTextBox" runat="server" Text='<%# Bind("name")
%>' />
                    <br />
                    <asp:LinkButton ID="UpdateButton" runat="server"
CausesValidation="True" CommandName="Update" Text="Update" />
                    &nbsp;<asp:LinkButton ID="UpdateCancelButton" runat="server"
CausesValidation="False" CommandName="Cancel" Text="Cancel" />
                </EditItemTemplate>
                <InsertItemTemplate>
                    Id:
```

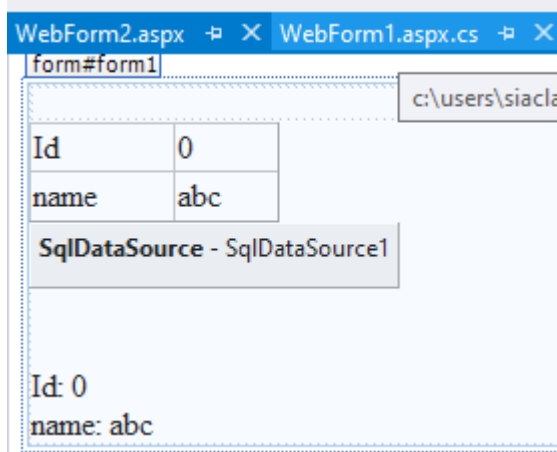
```

        <asp:TextBox ID="IdTextBox" runat="server" Text='<%# Bind("Id") %>' />
        <br />
        name:
        <asp:TextBox ID="nameTextBox" runat="server" Text='<%# Bind("name")
%>' />

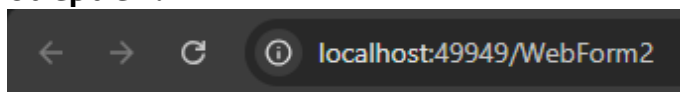
        <br />
        <asp:LinkButton ID="InsertButton" runat="server"
CausesValidation="True" CommandName="Insert" Text="Insert" />
        &nbsp;<asp:LinkButton ID="InsertCancelButton" runat="server"
CausesValidation="False" CommandName="Cancel" Text="Cancel" />
    </InsertItemTemplate>
    <ItemTemplate>
        Id:
        <asp:Label ID="IdLabel" runat="server" Text='<%# Eval("Id") %>' />
        <br />
        name:
        <asp:Label ID="nameLabel" runat="server" Text='<%# Bind("name") %>' />
        <br />

    </ItemTemplate>
</asp:FormView>
</form>
</body>
</html>

```



Output :



Id	2
name	pranit

Id: 2
name: pranit

Practical no. 10

- a. Create a web application to demonstrate JS Bootstrap Button.

aspx code :

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication35.WebForm1" %>

<!DOCTYPE html>

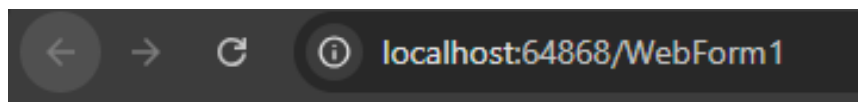
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>

            <div class="container">
                <h2>Button Sizes</h2>

                <p>The .btn class adds basic styling to a button:</p>
                <button type="button" class="btn">Basic Button</button>

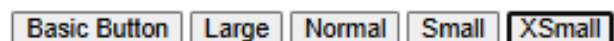
                <button type="button" class="btn btn-primary btn-lg">Large</button>
                <button type="button" class="btn btn-primary">Normal</button>
                <button type="button" class="btn btn-primary btn-sm">Small</button>
                <button type="button" class="btn btn-primary btn-xs">XSmall</button>
            </div>
        </div>
    </form>
</body>
</html>
```

Output :



Button Sizes

The .btn class adds basic styling to a button:



- b. Create a web application to demonstrate use of various Ajax controls.

aspx code :

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication35.WebForm2" %>

<!DOCTYPE html>
```

```

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

            </div>
            <asp:UpdatePanel ID="UpdatePanel1" runat="server">
                <ContentTemplate>
                    <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
                </ContentTemplate>
            </asp:UpdatePanel>
        </div>
    </form>
</body>
</html>

```

aspx.cs code :

```

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

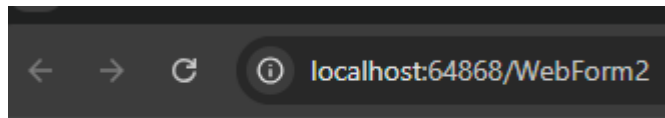
namespace WebApplication35
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

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

```

Output :



11:33:02

c. Create a web application to demonstrate Installation and use of NuGet package.