

AWD PRACTICAL

PRACTICAL 1.

Write the program 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#.

```
using System;
public class practical1A
{
    public static void Main(string[] args)
    {
        Console.Write("Enter the first number: ");
        double num1 = Convert.ToDouble(Console.ReadLine());
        Console.Write("Enter the second number: ");
        double num2 = Convert.ToDouble(Console.ReadLine());
        Console.WriteLine("\nResults:");
        Console.WriteLine($"{num1} + {num2} = {num1+num2}");
        Console.WriteLine($"{num1} - {num2} = {num1-num2}");
        Console.WriteLine($"{num1} * {num2} = {num1*num2}");
        Console.WriteLine($"{num1} / {num2} = {num1/num2}");
    }
}
```

Output:-

Enter the first number: 2

Enter the second number: 4

Results:

2 + 4 = 6

2 - 4 = -2

2 * 4 = 8

2 / 4 = 0.5

=== Code Execution Successful ===

b. Create an application to print Floyd's triangle till n rows in C#.

using System;

```
public class HelloWorld
{
    public static void Main(string[] args)
    {
        int x=1;
        for(int i=1;i<=4;i++)
        {
            for(int j=1;j<=i;j++)
            {
                Console.Write (x+" ");
                x++;
            }
            Console.WriteLine();
        }
    }
}
```

Output:

```
1
2 3
4 5 6
7 8 9 10
```

c. Create an application to demonstrate following operations i. Generate Fibonacci series.

using System;

```
public class A
{
    public static void Main(string[] args)
    {
        int n1,n2,n3;
        n1=0;
        n2=1;
        Console.WriteLine(n1);
        Console.WriteLine(n2);

        for(int i=2;i<10;i++)
        {
            n3=n1+n2;
            n1=n2;
            n2=n3;
            Console.WriteLine(n3);
        }
    }
}
```

output

```
0
1
1
2
3
5
8
13
21
34
```

ii. Test for prime numbers.

using System;

```
public class HelloWorld
{
    public static void Main(string[] args)
    {
        Console.WriteLine ("enter no");
        int n=Convert.ToInt32(Console.ReadLine());
        int flag=0;// prime
        for(int i=2;i<=n/2;i++)
        {
            if(n%i==0)
            {
```

```
        flag=1;
        break;

    }
}
if(flag==0)
    Console.WriteLine("number is prime");
else
    Console.WriteLine("number is not prime");
}
}
output
enter no
5
number is prime
```

PRACTICAL 2

Write the program for the following:

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

using System;

```
public class HelloWorld
```

```
{
```

```
    public static void Main(string[] args)
```

```
    {
```

```
        int x=10;
```

```
        object obj=x;
```

```
        x=20;
```

```
        Console.WriteLine ("normal variable:"+x);
```

```
        Console.WriteLine ("object:"+obj);
```

```
        int y=(int)obj;
```

```
        Console.WriteLine ("variable value after unboxing");
```

```
    }
```

```
}
```

Output

normal variable:20

object:10

variable value after unboxing

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

using System;

```
public class HelloWorld
{
    public delegate void Operation(int a, int b);
    public static void Main(string[] args)
    {
        Console.Write("Enter the first number: ");
        int num1 = Convert.ToInt32(Console.ReadLine());

        Console.Write("Enter the second number: ");
        int num2 = Convert.ToInt32(Console.ReadLine());
        Operation obj1 = add;
        Operation obj2 = sub;
        obj1(num1,num2);
        obj2(num1,num2);
    }
    public static void add(int a,int b)
    {
        Console.WriteLine("Addition : "+(a+b));
    }
    public static void sub(int a,int b)
    {
        Console.WriteLine("Substraction : "+(a-b));
    }
}
```

output:

Enter the first number: 2

Enter the second number: 4

Addition : 6

Substraction : -2

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

```
using System;
```

```
interface I1
```

```
{
```

```
    void show();
```

```
}
```

```
interface I2
```

```
{
```

```
    void show();
```

```
}
```

```
class A:I1,I2
```

```
{
```

```
    void I1.show()
```

```
{
```

```
    Console.WriteLine("I1 show");
```

```
}
```

```
    void I2.show()
```

```
{
```

```
    Console.WriteLine("I2 show");
```

```
}
```

```
}
```

```
class B
```

```
{
```

```
    public static void Main()
```

```
{
```

```
        I1 i1=new A();
```

```
        I2 i2=new A();
```

```
        i1.show();
```

```
        i2.show();
```

```
}
```

```
}
```

```
output
```

```
I1 show
```

```
I2 show
```

PRACTICAL 3.

Write the program for the following:

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

webform1.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication9.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:DropDownList ID="DropDownList1" AutoPostBack="true" runat="server"
```

```
OnSelectedIndexChanged="DropDownList1_SelectedIndexChanged">
```

```
<asp:ListItem Value="400706">nerul</asp:ListItem>
```

```
<asp:ListItem Value="400707">seawoods</asp:ListItem>
```

```
<asp:ListItem Value="400708">belapur</asp:ListItem>
```

```
</asp:DropDownList>
```

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

```
<asp:RadioButtonList ID="RadioButtonList1" AutoPostBack="true" runat="server"
```

```
OnSelectedIndexChanged="RadioButtonList1_SelectedIndexChanged">
```

```
<asp:ListItem Text="red" Value="red"></asp:ListItem>
```

```
<asp:ListItem Text="blue" Value="blue"></asp:ListItem>
```

```
<asp:ListItem Text="purple" Value="purple"></asp:ListItem>
```

```
</asp:RadioButtonList>
```

```
<asp:RadioButtonList ID="RadioButtonList2" runat="server" AutoPostBack="true"
```

```
OnSelectedIndexChanged="RadioButtonList2_SelectedIndexChanged">
```

```
<asp:ListItem>Arial</asp:ListItem>
```

```
<asp:ListItem>Jokerman</asp:ListItem>
```

```
<asp:ListItem>Times new roman</asp:ListItem>
```

```
</asp:RadioButtonList>
```

```
<asp:RadioButtonList ID="RadioButtonList3" runat="server" AutoPostBack="true"
```

```
OnSelectedIndexChanged="RadioButtonList3_SelectedIndexChanged">
```

```
<asp:ListItem>small</asp:ListItem>
```

```
<asp:ListItem>medium</asp:ListItem>
```

```
<asp:ListItem>large</asp:ListItem>
```

```
</asp:RadioButtonList>
```



```
<asp:CheckBox ID="CheckBox1" Text="Bold" AutoPostBack="true"
OnCheckedChanged="CheckBox1_CheckedChanged" runat="server" />
<asp:CheckBox ID="CheckBox2" Text="Underline" AutoPostBack="true"
OnCheckedChanged="CheckBox2_CheckedChanged" runat="server" />
<asp:CheckBox ID="CheckBox3" Text="Italic" AutoPostBack="true"
OnCheckedChanged="CheckBox3_CheckedChanged" runat="server" />
</div>
</form>
</body>
</html>
```

webform1.cs

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

namespace WebApplication9
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
        {
            Label1.Text = DropDownList1.SelectedValue;
        }

        protected void RadioButtonList1_SelectedIndexChanged(object sender, EventArgs e)
        {
            if (RadioButtonList1.SelectedIndex == 0)
                Label1.ForeColor = System.Drawing.Color.Red;
            if (RadioButtonList1.SelectedIndex == 1)
                Label1.ForeColor = System.Drawing.Color.Blue;
            if (RadioButtonList1.SelectedIndex == 2)
                Label1.ForeColor = System.Drawing.Color.Purple;
        }

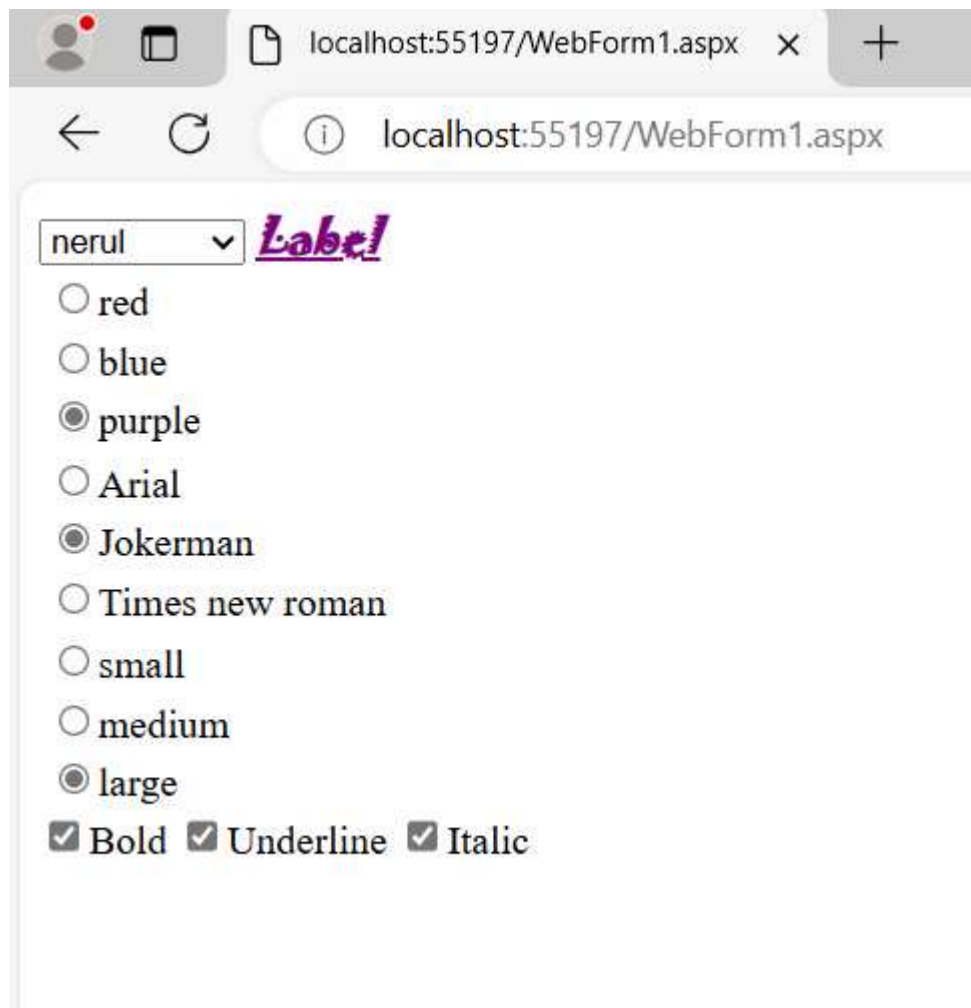
        protected void RadioButtonList2_SelectedIndexChanged(object sender, EventArgs e)
        {
            Label1.Font.Name = RadioButtonList2.SelectedValue;
        }
    }
}
```

```
protected void RadioButtonList3_SelectedIndexChanged(object sender, EventArgs e)
{
    if (RadioButtonList3.SelectedIndex == 0)
        Label1.Font.Size = FontUnit.Small;
    if (RadioButtonList3.SelectedIndex == 1)
        Label1.Font.Size = FontUnit.Medium;
    if (RadioButtonList3.SelectedIndex == 2)
        Label1.Font.Size = FontUnit.Large;
}

protected void CheckBox1_CheckedChanged(object sender, EventArgs e)
{
    if (CheckBox1.Checked)
        Label1.Font.Bold = true;
    else
        Label1.Font.Bold = false;
}

protected void CheckBox2_CheckedChanged(object sender, EventArgs e)
{
    if (CheckBox2.Checked)
        Label1.Font.Underline = true;
    else
        Label1.Font.Underline = false;
}

protected void CheckBox3_CheckedChanged(object sender, EventArgs e)
{
    if (CheckBox3.Checked)
        Label1.Font.Italic = true;
    else
        Label1.Font.Italic = false;
}
}
```



A screenshot of a web browser window displaying a web form. The browser's address bar shows the URL "localhost:55197/WebForm1.aspx". The form contains a dropdown menu with "nerul" selected, followed by a label "Label" in purple, bold, underlined, and italicized font. Below the label are several radio button options: "red", "blue", "purple" (selected), "Arial", "Jokerman" (selected), "Times new roman", "small", "medium", and "large" (selected). At the bottom, there are three checked checkboxes: "Bold", "Underline", and "Italic".

localhost:55197/WebForm1.aspx

← ↻ ⓘ localhost:55197/WebForm1.aspx

nerul ▼ **Label**

☐ red

☐ blue

☒ purple

☐ Arial

☒ Jokerman

☐ Times new roman

☐ small

☐ medium

☒ large

☒ Bold ☒ Underline ☒ Italic

b. Create a simple application to demonstrate your vacation using calendar control.**webform1.aspx**

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication5.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:Calendar ID="Calendar1" runat="server" OnDayRender="Calendar1_DayRender"
OnSelectionChanged="Calendar1_SelectionChanged"></asp:Calendar>
            <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
        </div>
    </form>
</body>
</html>
```

webform1.cs

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

namespace WebApplication5
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
        {
            if(e.Day.Date.Day == 15 && e.Day.Date.Month == 8)
            {
                Label obj = new Label();
                obj.Text = "independence day";
                e.Cell.Controls.Add(obj);
            }
        }
    }
}
```

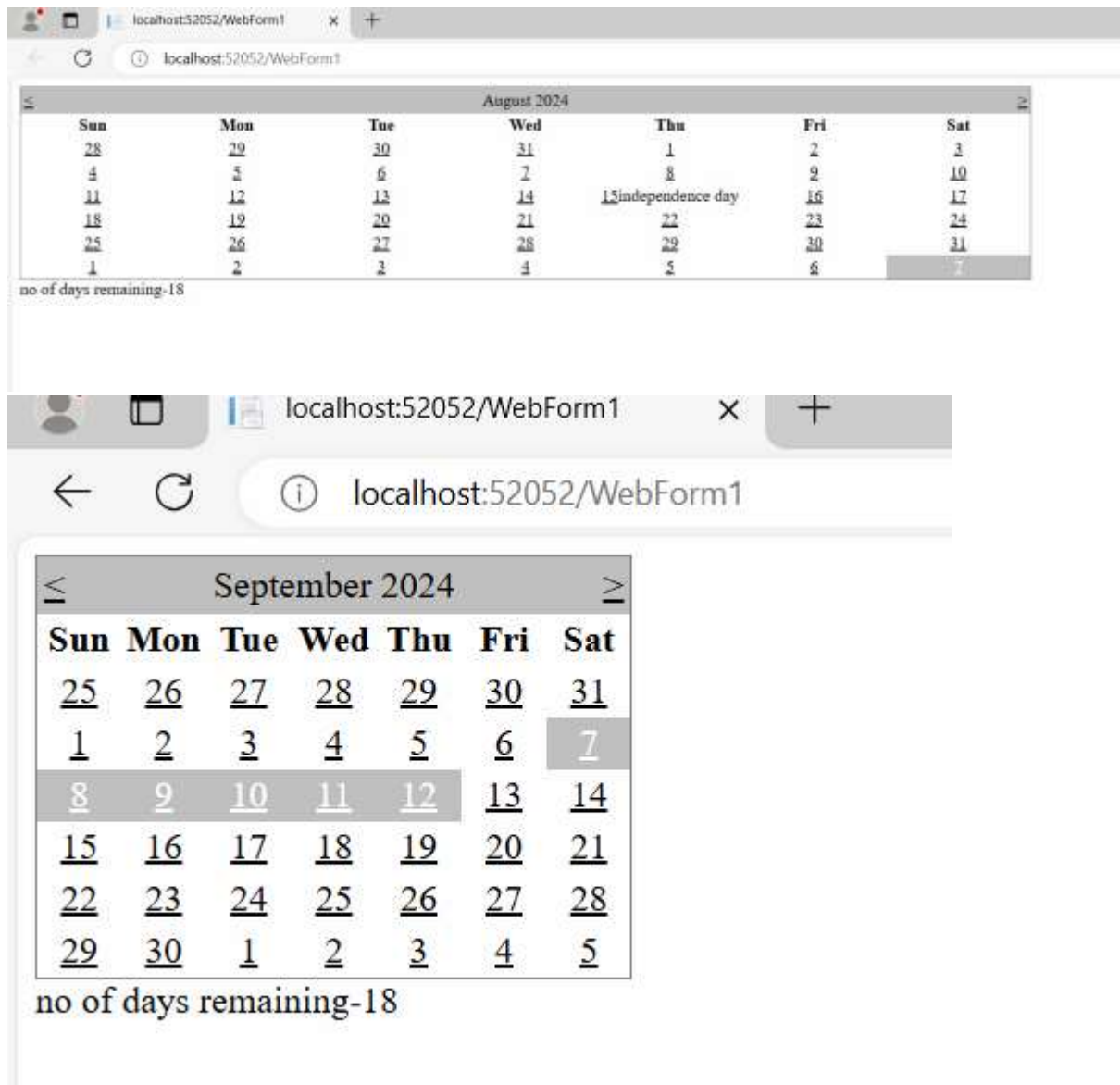
```

DateTime t1 = new DateTime(2024, 09 , 07);
DateTime t2 = t1.AddDays(5);
Calendar1.SelectedDates.SelectRange(t1, t2);

TimeSpan t = new DateTime(2024, 08, 07) - DateTime.Now;
Label1.Text = ("no of days remaining" + t.Days.ToString()); ;

}

```



c. Demonstrate the use of Treeview operations on the web form.**Master page**

```

<% @ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"
Inherits="WebApplication49.Site1" %>

<!DOCTYPE html>

<html>
<head runat="server">
    <title></title>
    <asp:ContentPlaceHolder ID="head" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Table ID="Table1" runat="server">
                <asp:TableRow>
                    <asp:TableCell>
                        <asp:TreeView ID="TreeView1" runat="server">
                            <Nodes>
                                <asp:TreeNode Text="awp" NavigateUrl="~/WebForm2.aspx"></asp:TreeNode>
                                <asp:TreeNode Text="spm" NavigateUrl="~/WebForm3.aspx"></asp:TreeNode>
                                <asp:TreeNode Text="et" NavigateUrl="~/WebForm4.aspx"></asp:TreeNode>
                            </Nodes>
                        </asp:TreeView>
                    </asp:TableCell>
                </asp:TableRow>
            </asp:Table>
            <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
            </asp:ContentPlaceHolder>
        </div>
    </form>
</body>
</html>

```

Content page

```

<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm2.aspx.cs" Inherits="WebApplication49.WebForm2" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    AWP
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    C#, .NET FRAMEWORK
</asp:Content>

```

Content page

```
<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm3.aspx.cs" Inherits="WebApplication49.WebForm3" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
SPD
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
PROJECT MANAGMENT
</asp:Content>
```

Content page

```
<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm4.aspx.cs" Inherits="WebApplication49.WebForm4" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
ET
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
NEW GENERATION TECHNOLOGY
</asp:Content>
```

AWP

semv#awp

sem5

awp

spm

et

C#,.NET FRAMEWORK

PRACTICAL 4.

Write the program for the following:

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

webform1.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication25.WebForm2" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br/> enter name:<asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox><asp:RequiredFieldValidator ID="RequiredFieldValidator1"
runat="server" ControlToValidate="TextBox1" ErrorMessage="enter
name"></asp:RequiredFieldValidator>
            <br/> enter age:<asp:TextBox ID="TextBox2"
runat="server"></asp:TextBox><asp:RangeValidator ID="RangeValidator1" runat="server"
ControlToValidate="TextBox2" ErrorMessage="enter valid age" MinimumValue="18"
MaximumValue="60" Type="Integer"></asp:RangeValidator>
            <br/> enter email id:<asp:TextBox ID="TextBox3"
runat="server"></asp:TextBox><asp:RegularExpressionValidator
ID="RegularExpressionValidator1" runat="server" ControlToValidate="TextBox3"
ErrorMessage="enter valid mail"
ValidationExpression="\S+\@\S+\.\S+"></asp:RegularExpressionValidator>
            <br/> enter pswd:<asp:TextBox ID="TextBox4"
runat="server"></asp:TextBox><asp:RequiredFieldValidator ID="RequiredFieldValidator2"
runat="server" ControlToValidate="TextBox4"
ErrorMessage="enterpass"></asp:RequiredFieldValidator>
            <br/> reenter pswd:<asp:TextBox ID="TextBox5"
runat="server"></asp:TextBox><asp:CompareValidator ID="CompareValidator1" runat="server"
ControlToValidate="TextBox5" ControlToCompare="TextBox4" Operator="Equal"
ErrorMessage="wrongpass"></asp:CompareValidator>
            <br/> enter mobile no:<asp:TextBox ID="TextBox6"
runat="server"></asp:TextBox><asp:CustomValidator ID="CustomValidator1" runat="server"
ControlToValidate="TextBox6" ErrorMessage="enter mob no"
OnServerValidate="CustomValidator1_ServerValidate"></asp:CustomValidator>
            <br/> <asp:Button ID="Button1" runat="server" Text="Button" OnClick="Button1_Click" />
        </div>
    </form>
</body>
</html>
```


webform1.cs

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

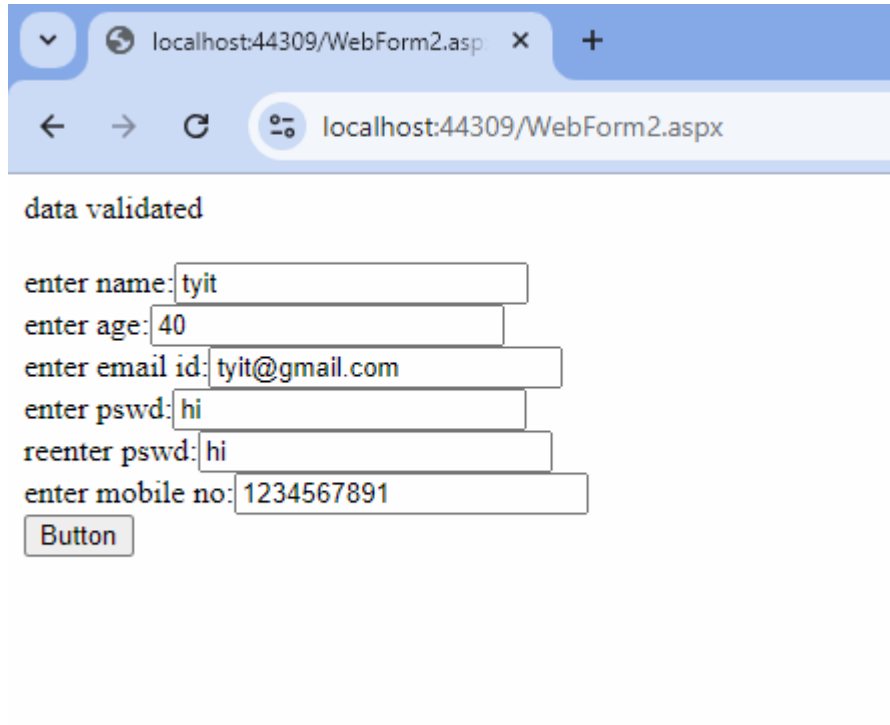
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication25
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void CustomValidator1_ServerValidate(object source, ServerValidateEventArgs args)
        {
            if (args.Value.Length == 10)
                args.IsValid = true;
            else
                args.IsValid = false;
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            if (Page.IsValid)
                Response.Write("data validated");
        }
    }
}
```



A screenshot of a web browser window. The address bar shows 'localhost:44309/WebForm2.aspx'. The page content includes the text 'data validated' followed by a form with the following fields and values:

- enter name: tyit
- enter age: 40
- enter email id: tyit@gmail.com
- enter pswd: hi
- reenter pswd: hi
- enter mobile no: 1234567891

Below the fields is a button labeled 'Button'.

b. Create Web Form to demonstrate use of Adrotator Control.**webform1.aspx**

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication25.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:AdRotator ID="AdRotator1" runat="server" AdvertisementFile="~/adv.xml"
Target="_blank"/>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

```
adv.xml
```

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

```
<Advertisements>
```

```
<Ad>
```

```
<ImageUrl>google.png</ImageUrl>
```

```
<NavigateUrl>https://google.com</NavigateUrl>
```

```
<AlternateText>google</AlternateText>
```

```
<Keyword>google</Keyword>
```

```
<Impressions>20</Impressions>
```

```
</Ad>
```

```
<Ad>
```

```
<ImageUrl>gmail.png</ImageUrl>
```

```
<NavigateUrl>https://gmail.com</NavigateUrl>>
```

```
<AlternateText>gmail</AlternateText>>
```

```
<Keyword>google</Keyword>
```

```
<Impressions>10</Impressions>
```

```
</Ad>
```

```
<Ad>
```

```
<ImageUrl>yahoo.png</ImageUrl>
```

```
<NavigateUrl>https://yahoo.com</NavigateUrl>>
```

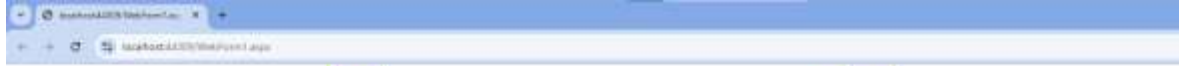
```
<AlternateText>yahoo</AlternateText>>
```

```
<Keyword>google</Keyword>
```

```
<Impressions>30</Impressions>
```

```
</Ad>
```

</Advertisements>



yahoo!

c. Create Web Form to demonstrate use User Controls**webform1.aspx**

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication43.WebForm1" %>
```

```
<% @ Register Src="~/WebUserControl1.ascx" TagPrefix="uc1" TagName="WebUserControl1" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
DOB: <uc1:WebUserControl1 runat="server" id="WebUserControl1" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

Webform2.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication43.WebForm2" %>
```

```
<% @ Register Src="~/WebUserControl1.ascx" TagPrefix="uc1" TagName="WebUserControl1" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
DOJ:<uc1:WebUserControl1 runat="server" id="WebUserControl1" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

Webform 3.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
Inherits="WebApplication43.WebForm3" %>
```

```
<% @ Register Src="~/WebUserControl1.ascx" TagPrefix="uc1" TagName="WebUserControl1" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
DOP:<uc1:WebUserControl1 runat="server" id="WebUserControl1" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

User control web form

```
<% @ Control Language="C#" AutoEventWireup="true" CodeBehind="WebUserControl1.ascx.cs"
```

```
Inherits="WebApplication43.WebUserControl1" %>
```

```
<asp:Calendar ID="Calendar1" runat="server"
```

```
OnSelectionChanged="Calendar1_SelectionChanged"></asp:Calendar>
```

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

usercontrol.cs

```
namespace WebApplication43
```

```
{
```

```
public partial class WebUserControl1 : System.Web.UI.UserControl
```

```
{
```

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

```
{
```

```
}
```

```
protected void Calendar1_SelectionChanged(object sender, EventArgs e)
```

```
{
```

```
Label1.Text = Calendar1.SelectedDate.ToLongDateString();
```

```
}
```

```
}
```

```
}
```

select DOB:

August 2024						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
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	31	1
2	3	4	5	6	7	8

15 August 2024

select DOJ:

August 2024						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
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	31	1
2	3	4	5	6	7	8

31 August 2024

select DOP:

August 2024						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
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	31	1
2	3	4	5	6	7	8

13 August 2024

PRACTICAL 5.

Write the program for the following:

a. Create Web Form to demonstrate use of Website Navigation controls.

##master page(site1.master)

```
<% @ Master Language="C#" AutoEventWireup="true"
CodeBehind="Site1.master.cs" Inherits="WebApplication5.Site1" %>

<!DOCTYPE html>

<html>
<head runat="server">
    <title></title>

</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Menu ID="Menu1" runat="server">
                <Items>
                    <asp:MenuItem Text="TYIT">
                        <asp:MenuItem Text="sem 5">
                            <asp:MenuItem Text="ET"
NavigateUrl="~/WebForm2.aspx"></asp:MenuItem>
                            <asp:MenuItem Text="AWD"
NavigateUrl="~/WebForm3.aspx"></asp:MenuItem>
                        </asp:MenuItem>
                    </asp:MenuItem>
                </Items>
            </asp:Menu>
            <asp:Table ID="Table1" runat="server">
                <asp:TableRow>
                    <asp:TableCell>
                        <asp:SiteMapPath ID="SiteMapPath1" runat="server"
PathSeparator="#" CurrentNodeStyle-BackColor="Yellow"></asp:SiteMapPath>
                        <asp:TreeView ID="TreeView1" runat="server">
                            <Nodes>
                                <asp:TreeNode Text="sem4" >
                                    <asp:TreeNode Text="java"
NavigateUrl="~/WebForm4.aspx"></asp:TreeNode>
                                    <asp:TreeNode Text="es"
NavigateUrl="~/WebForm5.aspx"></asp:TreeNode>
```



```

        </asp:TreeNode>
    </Nodes>
</asp:TreeView>
</asp:TableCell>
</asp:TableRow>
</asp:Table>

<asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
</asp:ContentPlaceHolder>
</div>
</form>
</body>
</html>

```

##content page(webform2.aspx)

```

<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication5.WebForm2" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
    ET
</asp:Content>

```

##content page(webform3.aspx)

```

<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
Inherits="WebApplication5.WebForm3" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
    AWD
</asp:Content>

```

##content page(webform4.aspx)

```

<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm4.aspx.cs"
Inherits="WebApplication5.WebForm4" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">

```

```

    java
</asp:Content>

```

##content page(webform5.aspx)

```

<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm5.aspx.cs"
Inherits="WebApplication5.WebForm5" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
    ES
</asp:Content>

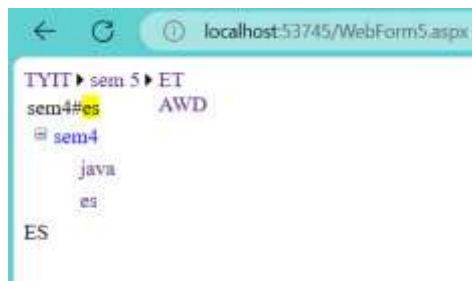
```

##sitemappath(web.sitemap)

```

<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
    <siteMapNode title="sem4">
        <siteMapNode url="WebForm4.aspx" title="java" />
        <siteMapNode url="webForm5.aspx" title="es" />
    </siteMapNode>
</siteMap>

```



b. Create a web application to demonstrate use of Master Page and content page.

Master page

```
<% @ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"
Inherits="WebApplication8.Site1" %>

<!DOCTYPE html>

<html>
<head runat="server">
    <title></title>

</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Table ID="Table1" runat="server" GridLines="Both" Height="452px"
Width="1129px">
                <asp:TableRow>
                    <asp:TableCell ColumnSpan="2">tyit master</asp:TableCell>
                </asp:TableRow>

                <asp:TableRow>
                    <asp:TableCell>
                        <asp:TreeView ID="TreeView1" runat="server">
                            <Nodes>
                                <asp:TreeNode Text="SEM5">
                                    <asp:TreeNode Text="Awp"
NavigateUrl="~/WebForm7.aspx"></asp:TreeNode>
                                    </asp:TreeNode>
                                <asp:TreeNode Text="SEM6">
                                    <asp:TreeNode Text="et" NavigateUrl="~/WebForm8.aspx"></asp:TreeNode>
                                    </asp:TreeNode>
                            </Nodes>
                        </asp:TreeView>

                        <asp:Menu ID="Menu1" runat="server">
                            <Items>
                                <asp:MenuItem Text="sem5"></asp:MenuItem>
                                <asp:MenuItem Text="awp"
NavigateUrl="~/WebForm7.aspx"></asp:MenuItem>
                                <asp:MenuItem Text="sem6"></asp:MenuItem>
                                <asp:MenuItem Text="et" NavigateUrl="~/WebForm8.aspx"></asp:MenuItem>
                            </Items>
                        </asp:Menu>
                    </asp:TableCell>
                </asp:TableRow>
            </div>
        </form>
    </body>
</html>
```

```

        </asp:TableCell>
        <asp:TableCell><asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
</asp:ContentPlaceHolder></asp:TableCell>
    </asp:TableRow>

    <asp:TableRow>
        <asp:TableCell ColumnSpan="2">copyright</asp:TableCell>
    </asp:TableRow>

</asp:Table>

```

Content page

```

<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm7.aspx.cs" Inherits="WebApplication8.WebForm7" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    awp
</asp:Content>

```

Content page

```

<% @ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm8.aspx.cs" Inherits="WebApplication8.WebForm8" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    et
</asp:Content>

```

ryit master	
SEM5 Awp SEM6 et sem5 awp sem6 et	et
copyright	

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

webform1.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication50.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:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="Button" OnClick="Button1_Click" />
        </div>
    </form>
</body>
</html>
```

webform1.cs

```
namespace WebApplication50
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        int x = 0;
        protected void Page_Load(object sender, EventArgs e)
        {
            TextBox1.Text = x.ToString();
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            x = x + 1;
            TextBox1.Text = x.ToString();
        }
    }
}
```



1)viewstate session


```
namespace WebApplication50
```

```

{
    public partial class WebForm1 : System.Web.UI.Page
    {
        int x = 1;
        protected void Page_Load(object sender, EventArgs e)
        {
            if(!IsPostBack)
                TextBox1.Text = "0";
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            if (ViewState["a"] != null)
            {
                x = Convert.ToInt32(ViewState["a"]) + 1;
            }
            TextBox1.Text = x.ToString();
            ViewState["a"] = x;
        }
    }
}

```



2)Session

```

namespace WebApplication50
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        int x = 1;
        protected void Page_Load(object sender, EventArgs e)
        {
            if(!IsPostBack)
                TextBox1.Text = "0";
        }

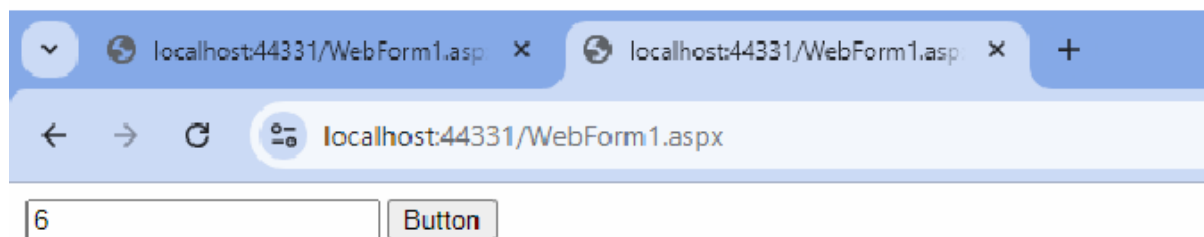
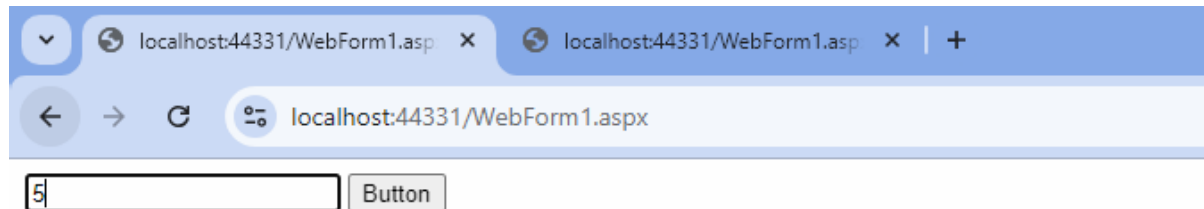
        protected void Button1_Click(object sender, EventArgs e)
        {
            if (Session["a"] != null)
            {
                x = Convert.ToInt32(Session["a"]) + 1;
            }
            TextBox1.Text = x.ToString();
            Session["a"] = x;
        }
    }
}

```

```

    }
}
}

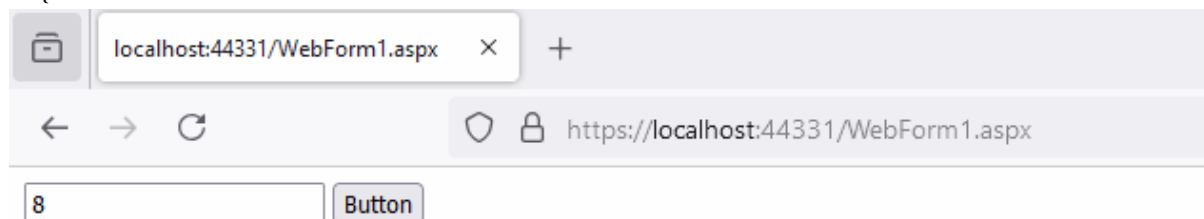
```



3)Application

```
namespace WebApplication50
```

```
{
    public partial class WebForm1 : System.Web.UI.Page
    {
```

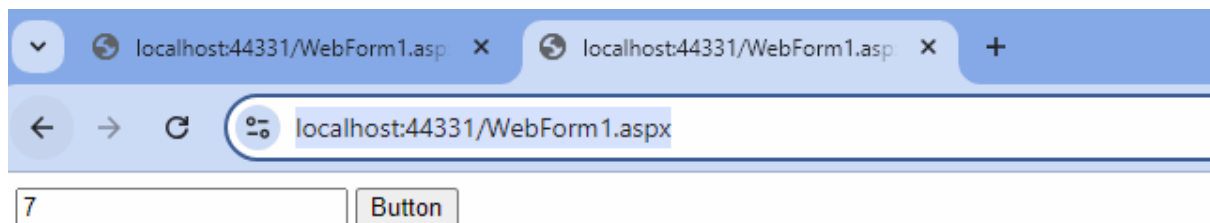
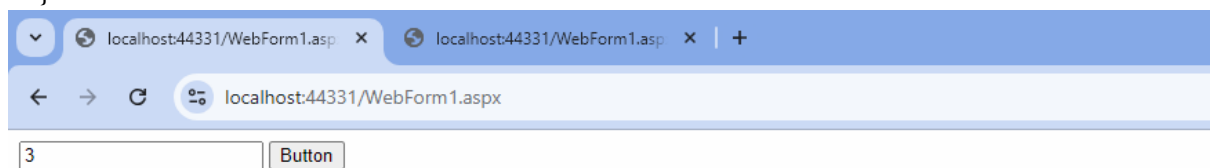


```

    int x = 1;
    protected void Page_Load(object sender, EventArgs e)
    {
        if(!IsPostBack)

```

```
        TextBox1.Text = "0";  
    }  
  
    protected void Button1_Click(object sender, EventArgs e)  
    {  
        if (Application["a"] != null)  
        {  
            x = Convert.ToInt32(Application["a"]) + 1;  
        }  
        TextBox1.Text = x.ToString();  
        Application["a"] = x;  
    }  
}
```



PRACTICAL 6

Write the program for the following:

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

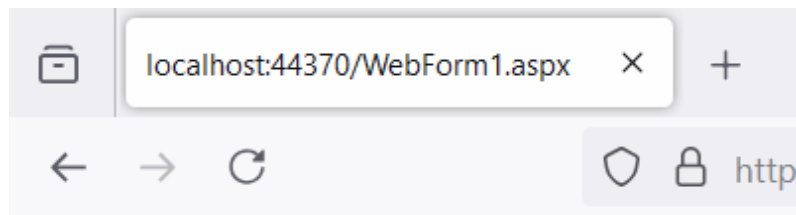
```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication37.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:DetailsView ID="DetailsView1" runat="server" Height="50px" Width="125px"
AllowPaging="True" AutoGenerateRows="False" DataKeyNames="Id"
DataSourceID="SqlDataSource1">
                <Fields>
                    <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
                    <asp:BoundField DataField="ename" HeaderText="ename" SortExpression="ename" />
                    <asp:BoundField DataField="project" HeaderText="project" SortExpression="project" />
                    <asp:BoundField DataField="sal" HeaderText="sal" SortExpression="sal" />
                    <asp:BoundField DataField="address" HeaderText="address" SortExpression="address"
/>

                    <asp:CommandField ShowDeleteButton="True" ShowEditButton="True"
ShowInsertButton="True" />
                </Fields>
            </asp:DetailsView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="Data
Source=SQL;Initial Catalog=tyit2425;User ID=user1;Password=user1" DeleteCommand="DELETE
FROM [employee] WHERE [Id] = @Id" InsertCommand="INSERT INTO [employee] ([Id],
[ename], [project], [sal], [address]) VALUES (@Id, @ename, @project, @sal, @address)"
ProviderName="<%= $ ConnectionStrings:tyit2425ConnectionString2.ProviderName %>"
SelectCommand="SELECT * FROM [employee]" UpdateCommand="UPDATE [employee] SET
[ename] = @ename, [project] = @project, [sal] = @sal, [address] = @address WHERE [Id] = @Id">
                <DeleteParameters>
                    <asp:Parameter Name="Id" Type="Int32" />
                </DeleteParameters>
                <InsertParameters>
                    <asp:Parameter Name="Id" Type="Int32" />
                    <asp:Parameter Name="ename" Type="String" />
                    <asp:Parameter Name="project" Type="String" />
                    <asp:Parameter Name="sal" Type="String" />
                    <asp:Parameter Name="address" Type="String" />
                </InsertParameters>
            </asp:SqlDataSource>
        </div>
    </form>
</body>
</html>
```

```
<UpdateParameters>
  <asp:Parameter Name="ename" Type="String" />
  <asp:Parameter Name="project" Type="String" />
  <asp:Parameter Name="sal" Type="String" />
  <asp:Parameter Name="address" Type="String" />
  <asp:Parameter Name="Id" Type="Int32" />
</UpdateParameters>
</asp:SqlDataSource>
</div>
</form>
</body>
</html>
```



Id	77
ename	muskan
project	awd
sal	12345
address	abc
Edit Delete New	
1 2 3 4 5	

b. Create a web application to display Using Disconnected Data Access and Databinding using GridView.**webform1.aspx**

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication10.WebForm2" %>
```

```
<!DOCTYPE html>
```

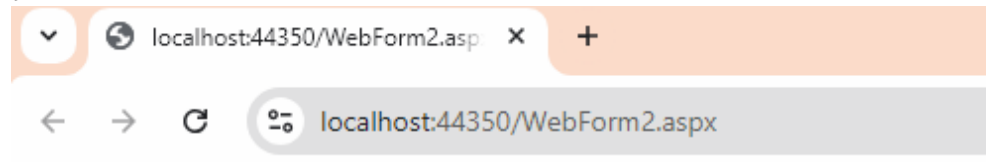
```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:GridView ID="GridView1" runat="server"></asp:GridView>
        </div>
    </form>
</body>
</html>
```

Webform1.cs

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

namespace WebApplication10
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection("Data Source=SQL;Initial Catalog=Muskan;User
ID=user1;Password=user1");
            SqlDataAdapter ad = new SqlDataAdapter("select * from studinfo", con);
            DataSet ds = new DataSet();
            ad.Fill(ds);
            GridView1.DataSource = ds;
            GridView1.DataBind();
        }
    }
}
```

```
}
```



Id	name	class
1	muskan	tyit77
2	pranay	tyit89
4	naaz	tyit114

PRACTICAL7

Write the program for the following:

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

Non Persistent cookies

webform1.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication54.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            name:<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            class:<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="submit" OnClick="Button1_Click" />
        </div>
    </form>
</body>
</html>
```

Webform2.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication54.WebForm2" %>

<!DOCTYPE html>

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

webform.1.aspx.cs

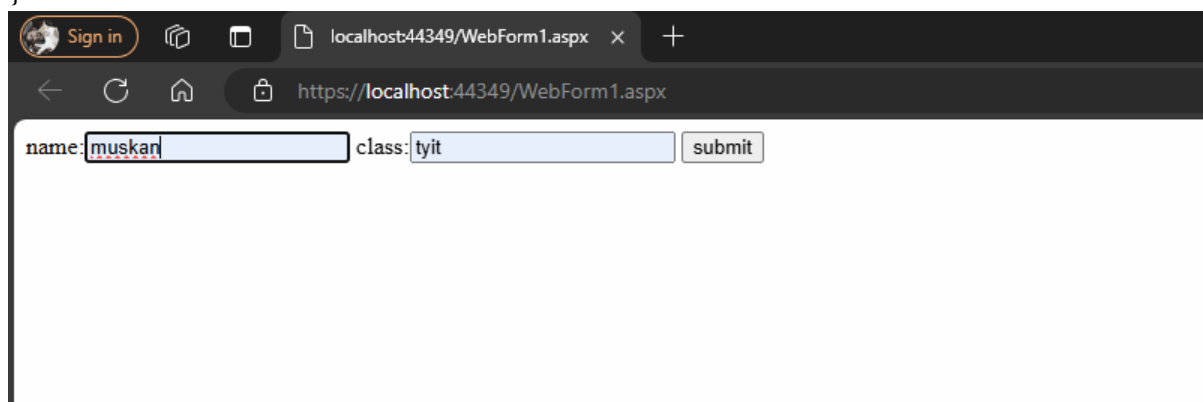
```
public partial class WebForm1 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

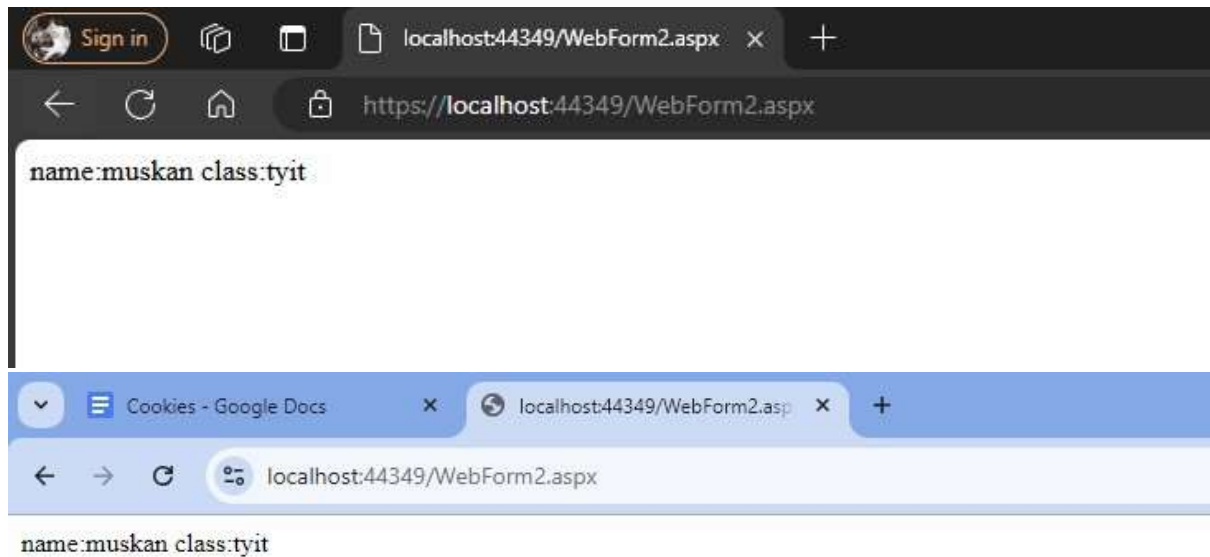
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        HttpCookie cookie = new HttpCookie("studinfo");
        cookie["name"] = TextBox1.Text;
        cookie["class"] = TextBox2.Text;
        cookie.Expires = DateTime.Now.AddDays(10);
        Response.Cookies.Add(cookie);
        Response.Redirect("WebForm2.aspx");
    }
}
```

webform.2.aspx.cs

```
public partial class WebForm2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        HttpCookie cookie = Request.Cookies["studinfo"];
        if(cookie!=null)
        {
            Label1.Text = cookie["name"];
            Label2.Text = cookie["class"];
        }
    }
}
```





Persistent

Webform1.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication54.WebForm1" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

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

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

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

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

Webform2.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication54.WebForm2" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

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

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

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

webform.1.aspx.cs

```
using System;
```

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

```
using System.Linq;
```

```
using System.Web;
```

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

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

```
namespace WebApplication54
```

```
{
```

```
public partial class WebForm1 : System.Web.UI.Page
```

```
{
```

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

```
{
```

```
}
```

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

```
{
```

```
HttpCookie cookie = new HttpCookie("studinfo");
```

```
cookie["name"] = TextBox1.Text;
```

```
cookie["class"] = TextBox2.Text;
```

```
Response.Cookies.Add(cookie);
```

```
Response.Redirect("WebForm2.aspx");
```

```
}
```

```
}
```

```
}
```


webform.2.aspx.cs

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

namespace WebApplication54
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            HttpCookie cookie = Request.Cookies["studinfo"];
            if(cookie!=null)
            {
                Label1.Text = cookie["name"];
                Label2.Text = cookie["class"];
            }
        }
    }
}
```

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

Webform3.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
Inherits="WebApplication54.WebForm3" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            user id: <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            pswd:<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="login" OnClick="Button1_Click" />
        </div>
    </form>
</body>
</html>
```

Webform4.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm4.aspx.cs"
Inherits="WebApplication54.WebForm4" %>

<!DOCTYPE html>

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

Web.config

```
<?xml version="1.0" encoding="utf-8"?>
<!--
For more information on how to configure your ASP.NET application, please visit
https://go.microsoft.com/fwlink/?LinkId=169433
-->
```

```

<configuration>
  <system.web>
    <authentication mode="Forms">
      <forms loginUrl="WebForm3.aspx" defaultUrl="Webform4.aspx" timeout="20"
protection="None">
        <credentials passwordFormat="Clear">
          <user name="tyit" password="tyit"/>
        </credentials>
      </forms>
    </authentication>

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

    <compilation debug="true" targetFramework="4.7.2" />
    <httpRuntime targetFramework="4.7.2" />
  </system.web>
  <system.codedom>
    <compilers>
      <compiler language="c#;cs;csharp" extension=".cs"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default
/nowarn:1659;1699;1701" />
      <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default
/nowarn:41008 /define:_MYTYPE=\&quot;Web\&quot; /optionInfer+" />
    </compilers>
  </system.codedom>
</configuration>

<configuration>
  <system.web>
    <authentication mode="Forms">
      <forms loginUrl="WebForm3.aspx" defaultUrl="Webform4.aspx" timeout="20"
protection="None">
        <credentials passwordFormat="Clear">
          <user name="tyit" password="tyit"/>
        </credentials>
      </forms>
    </authentication>

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

```

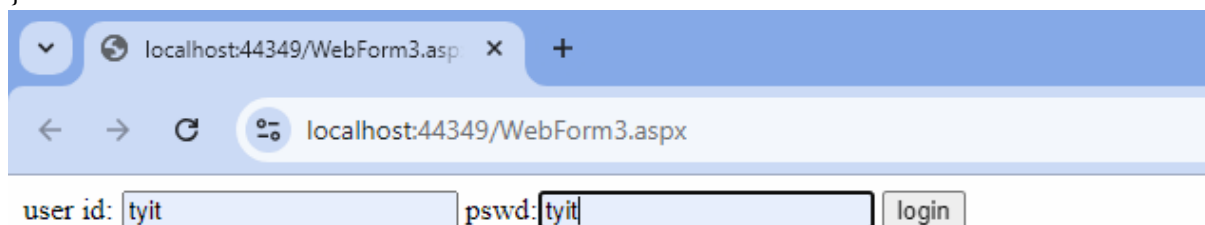
webform3.aspx.cs

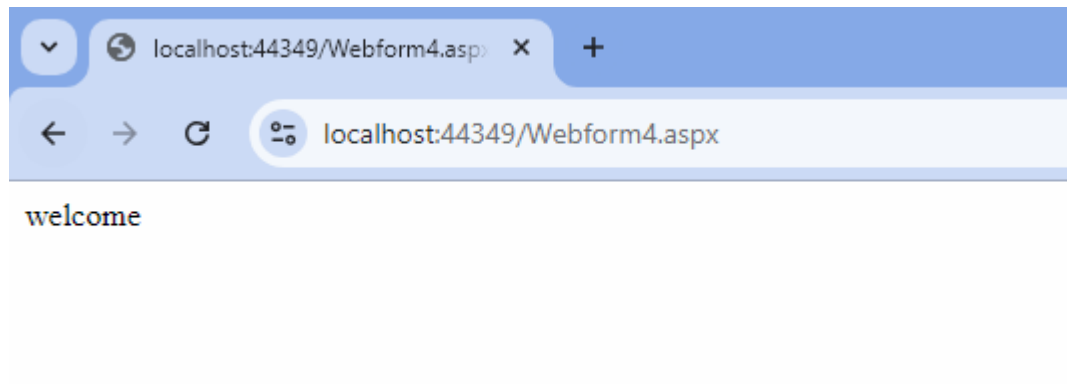
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.Security;

namespace WebApplication54
{
    public partial class WebForm3 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            if(FormsAuthentication.Authenticate(TextBox1.Text,TextBox2.Text))
            {
                FormsAuthentication.RedirectFromLoginPage(TextBox1.Text, false);
            }
            else
            {
                Response.Write("invalid credentials");
                TextBox1.Text = "";
                TextBox2.Text = "";
            }
        }
    }
}
```





PRACTICAL8

Write the program for the following:

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

Webform1.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication10.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            id: <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            name:<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            class:<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="insert" OnClick="Button1_Click" />
            <asp:Button ID="Button2" runat="server" Text="delete" OnClick="Button2_Click"
style="width: 53px" />
        </div>
    </form>
</body>
</html>
```

webform1.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;
using System.Data;

namespace WebApplication10
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

```

```
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        SqlConnection con = new SqlConnection("Data Source=SQL;Initial Catalog=Muskan;User
ID=user1;Password=user1");
        SqlCommand cmd = new SqlCommand("insert into studinfo values(@Id,@name,@class)",
con);
        cmd.Parameters.AddWithValue("@Id", TextBox1.Text);
        cmd.Parameters.AddWithValue("@name", TextBox2.Text);
        cmd.Parameters.AddWithValue("@class", TextBox3.Text);
        con.Open();
        cmd.ExecuteNonQuery();
        Response.Write("data inserted");
        con.Close();
    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        SqlConnection con = new SqlConnection("Data Source=SQL;Initial Catalog=Muskan;User
ID=user1;Password=user1");
        SqlCommand cmd = new SqlCommand("delete from studinfo where Id=@Id", con);
        cmd.Parameters.AddWithValue("@Id", TextBox1.Text);
        con.Open();
        cmd.ExecuteNonQuery();
        Response.Write("data deleted");
        con.Close();
    }
}
}
```



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

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication13.WebForm1" %>

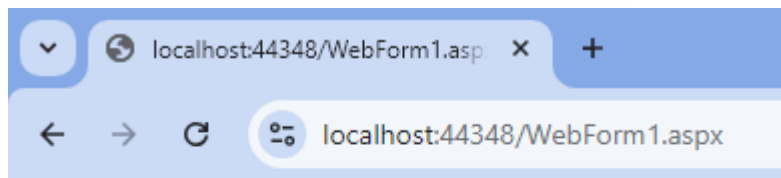
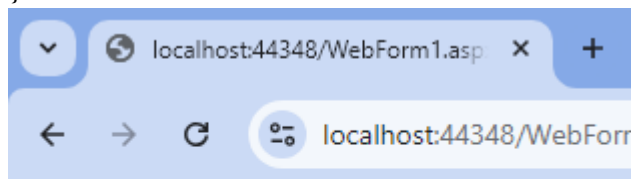
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="Button" OnClick="Button1_Click" />
        </div>
    </form>
</body>
</html>
```

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

```
namespace WebApplication13
{
    class ageexception : Exception
    {
        public ageexception(string s) : base(s)
        { }
    }
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            int a = Convert.ToInt32(TextBox1.Text);
            try
            {
                if(a > 80)
                {
                    throw new ageexception("invalid age");
                }
            }
        }
    }
}
```

```
    }  
    catch(ageexception obj)  
    {  
        Response.Write(obj.Message);  
    }  
    finally  
    {  
        Response.Write("<br> finally executed");  
    }  
}  
}
```



PRACTICAL9

Write the program for the following:

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

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication37.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:GridView ID="GridView1" runat="server" AllowPaging="True" AllowSorting="True"
AutoGenerateColumns="False" DataKeyNames="Id" DataSourceID="SqlDataSource1">
                <AlternatingRowStyle BorderColor="Pink" />
                <Columns>
                    <asp:CommandField ShowDeleteButton="True" ShowEditButton="True"
ShowSelectButton="True" />
                    <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
                    <asp:BoundField DataField="name" HeaderText="name" SortExpression="name" />
                    <asp:BoundField DataField="class" HeaderText="class" SortExpression="class" />
                </Columns>
            </asp:GridView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="Data
Source=SQL;Initial Catalog=Muskan;Persist Security Info=True;User ID=user1;Password=user1"
DeleteCommand="DELETE FROM [studinfo] WHERE [Id] = @Id" InsertCommand="INSERT
INTO [studinfo] ([Id], [name], [class]) VALUES (@Id, @name, @class)"
SelectCommand="SELECT * FROM [studinfo]" UpdateCommand="UPDATE [studinfo] SET
[name] = @name, [class] = @class WHERE [Id] = @Id">
                <DeleteParameters>
                    <asp:Parameter Name="Id" Type="Int32" />
                </DeleteParameters>
                <InsertParameters>
                    <asp:Parameter Name="Id" Type="Int32" />
                    <asp:Parameter Name="name" Type="String" />
                    <asp:Parameter Name="class" Type="String" />
                </InsertParameters>
                <UpdateParameters>
                    <asp:Parameter Name="name" Type="String" />
                    <asp:Parameter Name="class" Type="String" />
                    <asp:Parameter Name="Id" Type="Int32" />
                </UpdateParameters>
            </asp:SqlDataSource>
        </div>
    </form>
</body>
</html>
```

```

        </UpdateParameters>
    </asp:SqlDataSource>
    <asp:FormView ID="FormView1" runat="server" DataKeyNames="Id"
DataSourceID="SqlDataSource2">
        <EditItemTemplate>
            Id:
            <asp:Label ID="IdLabel1" runat="server" Text='<%# Eval("Id") %>' />
            <br />
            name:
            <asp:TextBox ID="nameTextBox" runat="server" Text='<%# Bind("name") %>' />
            <br />
            class:
            <asp:TextBox ID="classTextBox" runat="server" Text='<%# Bind("class") %>' />
            <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 />
            class:
            <asp:TextBox ID="classTextBox" runat="server" Text='<%# Bind("class") %>' />
            <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 />
            class:
            <asp:Label ID="classLabel" runat="server" Text='<%# Bind("class") %>' />
            <br />

        </ItemTemplate>
    </asp:FormView>

```

```

<asp:SqlDataSource ID="SqlDataSource2" runat="server" ConnectionString="Data
Source=SQL;Initial Catalog=Muskan;Persist Security Info=True;User ID=user1;Password=user1"
SelectCommand="SELECT * FROM [studinfo] WHERE ([Id] = @Id)">
  <SelectParameters>
    <asp:ControlParameter ControlID="GridView1" Name="Id"
PropertyName="SelectedValue" Type="Int32" />
  </SelectParameters>
</asp:SqlDataSource>
</div>
</form>
</body>
</html>

```



	<u>Id</u>	<u>name</u>	<u>class</u>
Edit Delete Select	2	pranay	tyit89
Edit Delete Select	1	muskan	tyit77
Edit Delete Select	4	naaz	tyit114

Id: 1

name: muskan

class: tyit77

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

Control.

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm5.aspx.cs"
Inherits="WebApplication37.WebForm5" %>

<!DOCTYPE html>

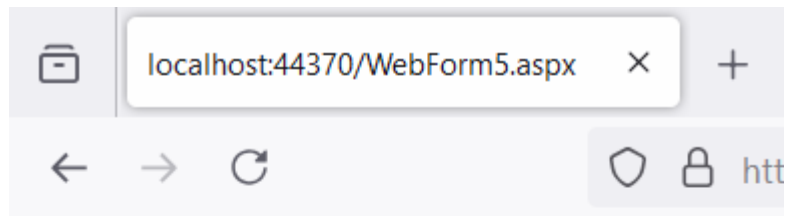
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="Id" DataSourceID="SqlDataSource1">
                <Columns>
                    <asp:CommandField ShowSelectButton="True" />
                    <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
                    <asp:BoundField DataField="name" HeaderText="name" SortExpression="name" />
                    <asp:BoundField DataField="class" HeaderText="class" SortExpression="class" />
                </Columns>
            </asp:GridView>
            <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="Data
Source=SQL;Initial Catalog=Muskan;Persist Security Info=True;User ID=user1;Password=user1"
SelectCommand="SELECT * FROM [studinfo]"></asp:SqlDataSource>
            <asp:DetailsView ID="DetailsView1" runat="server" Height="50px" Width="125px"
AutoGenerateRows="False" DataKeyNames="Id" DataSourceID="SqlDataSource2">
                <Fields>
                    <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
                    <asp:BoundField DataField="name" HeaderText="name" SortExpression="name" />
                    <asp:BoundField DataField="class" HeaderText="class" SortExpression="class" />
                </Fields>
            </asp:DetailsView>
            <asp:SqlDataSource ID="SqlDataSource2" runat="server" ConnectionString="Data
Source=SQL;Initial Catalog=Muskan;Persist Security Info=True;User ID=user1;Password=user1"
SelectCommand="SELECT * FROM [studinfo] WHERE ([Id] = @Id)">
                <SelectParameters>
                    <asp:ControlParameter ControlID="GridView1" Name="Id"
PropertyName="SelectedValue" Type="Int32" />
                </SelectParameters>
            </asp:SqlDataSource>
            <asp:FormView ID="FormView1" runat="server" DataKeyNames="Id"
DataSourceID="SqlDataSource2">
```

```

<EditItemTemplate>
  Id:
  <asp:Label ID="IdLabel1" runat="server" Text='<%# Eval("Id") %>' />
  <br />
  name:
  <asp:TextBox ID="nameTextBox" runat="server" Text='<%# Bind("name") %>' />
  <br />
  class:
  <asp:TextBox ID="classTextBox" runat="server" Text='<%# Bind("class") %>' />
  <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 />
  class:
  <asp:TextBox ID="classTextBox" runat="server" Text='<%# Bind("class") %>' />
  <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 />
  class:
  <asp:Label ID="classLabel" runat="server" Text='<%# Bind("class") %>' />
  <br />

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

```



	Id	name	class
Select	1	muskan	tyit77
Select	2	pranay	tyit89
Select	4	naaz	tyit114

Id	1
name	muskan
class	tyit77

Id: 1

name: muskan

class: tyit77

PRACTICAL10

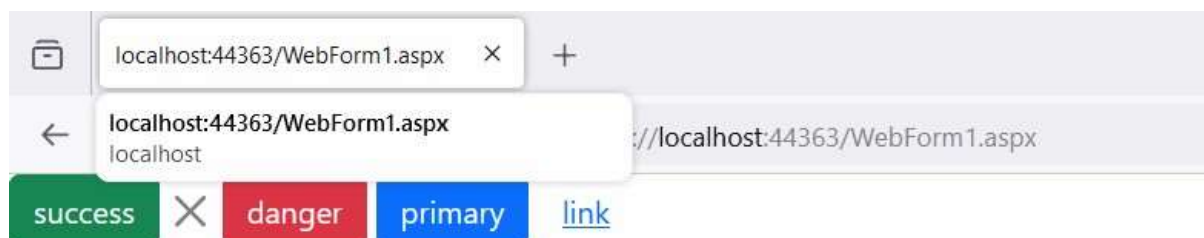
Write the program for the following:

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

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication43.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
crossorigin="anonymous">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jleHz"
crossorigin="anonymous"></script>
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Button ID="Button1" runat="server" Text="success" CssClass="btn btn-success"/>
            <asp:Button ID="Button2" runat="server" Text="" CssClass="btn btn-close" />
            <asp:Button ID="Button3" runat="server" Text="danger" CssClass="btn btn-danger"/>
            <asp:Button ID="Button4" runat="server" Text="primary" CssClass="btn btn-primary"/>
            <asp:Button ID="Button5" runat="server" Text="link" CssClass="btn btn-link"/>
        </div>
    </form>
</body>
</html>
```



b. Create a web application to demonstrate use of various Ajax controls.**1)timer**

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication14.WebForm1" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

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

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

```
<asp:UpdatePanel ID="UpdatePanel1" runat="server">
```

```
<ContentTemplate>
```

```
<asp:Timer ID="Timer1" runat="server" Interval="4000"
```

```
OnTick="Timer1_Tick"></asp:Timer>
```

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

```
</ContentTemplate>
```

```
</asp:UpdatePanel>
```

```
<asp:UpdateProgress ID="UpdateProgress1" runat="server">
```

```
<ProgressTemplate>
```

```
plsss..... wait
```

```
</ProgressTemplate>
```

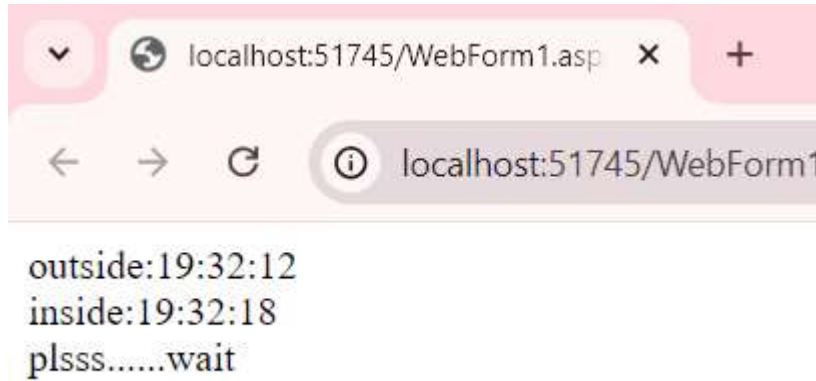
```
</asp:UpdateProgress>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```



2)accordion

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication14.WebForm1" %>
```

```
<% @ Register Assembly="AjaxControlToolkit" Namespace="AjaxControlToolkit"
TagPrefix="ajaxToolkit" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

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

```
<ajaxToolkit:Accordion ID="Accordion1" runat="server">
```

```
<Panes>
```

```
<ajaxToolkit:AccordionPane ID="AccordionPane1" runat="server">
```

```
<Header>
```

```
sem5
```

```
</Header>
```

```
<Content>
```

```
awd
```

```
spd
```

```
iot
```

```
et
```

```
ai
```

```
</Content>
```

```
</ajaxToolkit:AccordionPane>
```

```
<ajaxToolkit:AccordionPane ID="AccordionPane2" runat="server">
```

```
<Header>
```

```
sem6
```

```
</Header>
```

```

        <Content>
            bi
            gis
            sqa
            cl
        </Content>
    </ajaxToolkit:AccordionPane>
</Panes>

</ajaxToolkit:Accordion>

<asp:ScriptManager ID="ScriptManager1" runat="server"></asp:ScriptManager>
<asp:UpdatePanel ID="UpdatePanel1" runat="server">
    <ContentTemplate>
        <asp:Timer ID="Timer1" runat="server" Interval="4000"
OnTick="Timer1_Tick"></asp:Timer>
        inside:<asp:Label ID="Label2" runat="server" Text="Label"></asp:Label>
    </ContentTemplate>
</asp:UpdatePanel>
<asp:UpdateProgress ID="UpdateProgress1" runat="server">
    <ProgressTemplate>
        plsss..... wait
    </ProgressTemplate>
</asp:UpdateProgress>
</div>
</form>
</body>
</html>

```

```

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

namespace WebApplication14
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            Label1.Text = DateTime.Now.ToLongTimeString();
        }

        protected void Timer1_Tick(object sender, EventArgs e)
        {

```

```

        System.Threading.Thread.Sleep(2000);
        Label2.Text = DateTime.Now.ToLongTimeString();
    }
}
}

```



```

outside:19:48:22
sem5
sem6
bi gis sqa cl
inside:19:48:29

```

3)AUTOCONTROL WEBFORM1.ASPX

```

<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication40.WebForm1" %>

```

```

<% @ Register assembly="AjaxControlToolkit" namespace="AjaxControlToolkit"
tagprefix="ajaxToolkit" %>

```

```

<!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>

```

```

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

```

```

            <ajaxToolkit:AutoCompleteExtender ID="TextBox1_AutoCompleteExtender" runat="server"

```

```

MinimumPrefixLength="1" BehaviorID="TextBox1_AutoCompleteExtender"

```

```

DelimiterCharacters="" ServicePath="" ServiceMethod="getinfo" TargetControlID="TextBox1">

```

```

            </ajaxToolkit:AutoCompleteExtender>

```

```

        </div>

```

```

    </form>

```

```

</body>

```

```

</html>

```

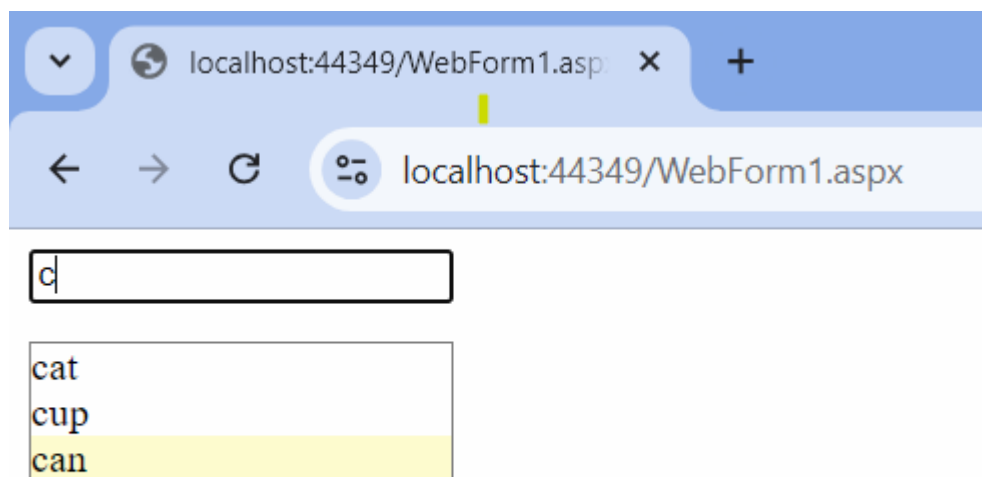
WEBFORM1.CS

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

```
namespace WebApplication40
```

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

        }
        [System.Web.Script.Services.ScriptMethod()]
        [System.Web.Services.WebMethod()]
        public static string[] getinfo(string prefixText)
        {
            string[] s1 = { "ant", "apple", "bat", "ball", "cat", "cup", "can" };
            var a = from t in s1 where t.ToLower().StartsWith(prefixText) select t;
            return a.ToArray();
        }
    }
}
```



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

```

<Window x:Class="WpfApp1.MainWindow"
    xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
    xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
    xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
    xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
    xmlns:local="clr-namespace:WpfApp1"
    mc:Ignorable="d"
    Title="MainWindow" Height="450" Width="800">
    <Grid Background="Aqua">
        <StackPanel VerticalAlignment="Center">
            <Button Click="Button_Click" Width="100px" Content="click here"></Button>
            <TextBlock Name="TBOX1"></TextBlock>
        </StackPanel>
    </Grid>
</Window>

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Navigation;
using System.Windows.Shapes;
using Newtonsoft.Json;

namespace WpfApp1
{
    /// <summary>
    /// Interaction logic for MainWindow.xaml
    /// </summary>
    public partial class MainWindow : Window
    {
        public MainWindow()
        {
            InitializeComponent();

```

```
    }

    public class A
    {
        public string Name
        {
            get;
            set;
        }
        public string Email
        {
            get;
            set;
        }
        public DateTime DOB
        {
            get;
            set;
        }
    }
    private void Button_Click(object sender, RoutedEventArgs e)
    {
        A obj = new A
        {
            Name = "TYIT",
            Email = "tyit@gmail.com",
            DOB = new DateTime(2004, 10, 12)
        };
        string S = JsonConvert.SerializeObject(obj, Newtonsoft.Json.Formatting.Indented);
        TBOX1.Text = S;
    }
}
```