

## PRACTICAL 1. A

```
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: 1

Enter the second number: 2

Results:

1 + 2 = 3

1 - 2 = -1

1 \* 2 = 2

1 / 2 = 0.5

## PRACTICAL 1. B

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

```

## PRACTICAL 1. C

```

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;
```

```
class PrimeChecker
{
    static void Main(string[] args)
    {
        Console.WriteLine("Please enter a number:");
        int number = Convert.ToInt32(Console.ReadLine());
        bool isPrime = true;

        for (int divisor = 2; divisor <= number / 2; divisor++)
        {
            if (number % divisor == 0)
            {
                isPrime = false;
                break;
            }
        }

        if (isPrime && number > 1)
            Console.WriteLine("The number is prime.");
        else
            Console.WriteLine("The number is not prime.");
    }
}
```

```
output
enter no
7
number is prime
```

## PRACTICAL 2. A

```
using System;
```

```
class BoxingUnboxingExample
{
```

```

static void Main(string[] args)
{
    int a = 10;
    object boxedValue = a;
    a = 30; // Changing the original value

    Console.WriteLine("Updated variable value: " + a);
    Console.WriteLine("Boxed value (object): " + boxedValue);

    int unboxedValue = (int)boxedValue;
    Console.WriteLine("Unboxed value: " + unboxedValue);
}
}

```

OUTPUT:

Updated variable value: 30  
 Boxed value (object): 10  
 Unboxed value: 10

## PRACTICAL 2. B

```

public class Calculator
{
    public delegate void MathOperation(int x, int y);

    public static void Main(string[] args)
    {
        Console.Write("Input the first value: ");
        int value1 = Convert.ToInt32(Console.ReadLine());

        Console.Write("Input the second value: ");
        int value2 = Convert.ToInt32(Console.ReadLine());

        MathOperation addition = PerformAddition;
        MathOperation subtraction = PerformSubtraction;
        addition(value1, value2);
        subtraction(value1, value2);
    }

    public static void PerformAddition(int x, int y)
    {
        Console.WriteLine("Sum: " + (x + y));
    }

    public static void PerformSubtraction(int x, int y)

```

```
{  
    Console.WriteLine("Difference: " + (x - y));  
}  
}
```

OUTPUT:

Input the first value: 2

Input the second value: 4

Sum: 6

Difference: -2

## PRACTICAL 2. C

```
using System;
```

```
interface InterfaceOne  
{  
    void Display();  
}
```

```
interface InterfaceTwo  
{  
    void Display();  
}
```

```
class Implementation : InterfaceOne, InterfaceTwo  
{  
    void InterfaceOne.Display()  
    {  
        Console.WriteLine("InterfaceOne Display");  
    }  
  
    void InterfaceTwo.Display()  
    {  
        Console.WriteLine("InterfaceTwo Display");  
    }  
}
```

```
class Test  
{  
    public static void Main()  
    {  
        InterfaceOne obj1 = new Implementation();  
    }  
}
```

```
        InterfaceTwo obj2 = new Implementation();  
        obj1.Display();  
        obj2.Display();  
    }  
}
```

OUTPUT:  
InterfaceOne Display  
InterfaceTwo Display

## PRACTICAL 3. A

**webform1.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"  
Inherits="CustomApp.WebPage1" %>
```

```
<!DOCTYPE html>
```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Custom Dropdown & Checkbox Form</title>
</head>
<body>
    <form id="customForm" runat="server">
        <div>
            <asp:DropDownList ID="LocationDropdown" AutoPostBack="true" runat="server"
OnSelectedIndexChanged="LocationDropdown_SelectionChanged">
                <asp:ListItem Value="500100">CityA</asp:ListItem>
                <asp:ListItem Value="500101">CityB</asp:ListItem>
                <asp:ListItem Value="500102">CityC</asp:ListItem>
            </asp:DropDownList>
            <asp:Label ID="OutputLabel" runat="server" Text="Output will appear
here"></asp:Label>

            <asp:RadioButtonList ID="ColorRadioButtonList" AutoPostBack="true"
runat="server" OnSelectedIndexChanged="ColorRadioButtonList_SelectionChanged">
                <asp:ListItem Text="Green" Value="Green"></asp:ListItem>
                <asp:ListItem Text="Yellow" Value="Yellow"></asp:ListItem>
                <asp:ListItem Text="Orange" Value="Orange"></asp:ListItem>
            </asp:RadioButtonList>

            <asp:RadioButtonList ID="FontRadioButtonList" runat="server" AutoPostBack="true"
OnSelectedIndexChanged="FontRadioButtonList_SelectionChanged">
                <asp:ListItem>Verdana</asp:ListItem>
                <asp:ListItem>Comic Sans</asp:ListItem>
                <asp:ListItem>Georgia</asp:ListItem>
            </asp:RadioButtonList>

            <asp:RadioButtonList ID="SizeRadioButtonList" runat="server" AutoPostBack="true"
OnSelectedIndexChanged="SizeRadioButtonList_SelectionChanged">
                <asp:ListItem>Extra Small</asp:ListItem>
                <asp:ListItem>Normal</asp:ListItem>
                <asp:ListItem>Extra Large</asp:ListItem>
            </asp:RadioButtonList>

            <asp:CheckBox ID="BoldCheckBox" Text="Bold Text" AutoPostBack="true"
OnCheckedChanged="BoldCheckBox_Checked" runat="server" />
            <asp:CheckBox ID="UnderlineCheckBox" Text="Underline Text"
AutoPostBack="true" OnCheckedChanged="UnderlineCheckBox_Checked" runat="server"
/>
            <asp:CheckBox ID="ItalicCheckBox" Text="Italic Text" AutoPostBack="true"
OnCheckedChanged="ItalicCheckBox_Checked" runat="server" />
        </div>
    </form>
</body>
</html>

```

### **webform1.cs**

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

namespace CustomApp
{
    public partial class WebPage1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e) {}

        protected void LocationDropdown_SelectionChanged(object sender, EventArgs e)
        {
            OutputLabel.Text = LocationDropdown.SelectedValue;
        }

        protected void ColorRadioButtonList_SelectionChanged(object sender, EventArgs e)
        {
            if (ColorRadioButtonList.SelectedIndex == 0)
                OutputLabel.ForeColor = System.Drawing.Color.Green;
            if (ColorRadioButtonList.SelectedIndex == 1)
                OutputLabel.ForeColor = System.Drawing.Color.Yellow;
            if (ColorRadioButtonList.SelectedIndex == 2)
                OutputLabel.ForeColor = System.Drawing.Color.Orange;
        }

        protected void FontRadioButtonList_SelectionChanged(object sender, EventArgs e)
        {
            OutputLabel.Font.Name = FontRadioButtonList.SelectedValue;
        }

        protected void SizeRadioButtonList_SelectionChanged(object sender, EventArgs e)
        {
            if (SizeRadioButtonList.SelectedIndex == 0)
                OutputLabel.Font.Size = FontUnit.XSmall;
            if (SizeRadioButtonList.SelectedIndex == 1)
                OutputLabel.Font.Size = FontUnit.Medium;
            if (SizeRadioButtonList.SelectedIndex == 2)
                OutputLabel.Font.Size = FontUnit.XLarge;
        }

        protected void BoldCheckBox_Checked(object sender, EventArgs e)
        {
            OutputLabel.Font.Bold = BoldCheckBox.Checked;
        }
    }
}
```

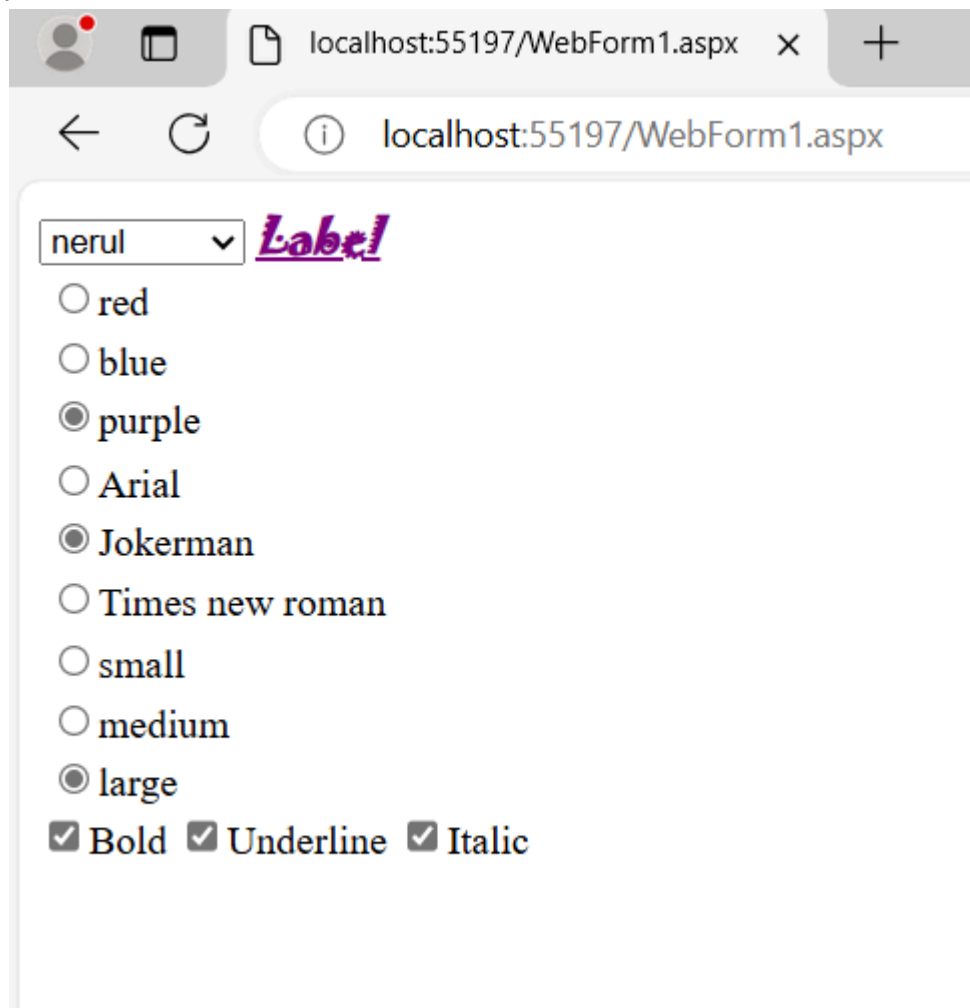


```

protected void UnderlineCheckBox_CheckedChanged(object sender, EventArgs e)
{
    OutputLabel.Font.Underline = UnderlineCheckBox.Checked;
}

protected void ItalicCheckBox_CheckedChanged(object sender, EventArgs e)
{
    OutputLabel.Font.Italic = ItalicCheckBox.Checked;
}
}

```



## PRACTICAL 3. B

### webform1.aspx

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="CustomApp.WebPage1" %>

```

```

<!DOCTYPE html>

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Custom Calendar Page</title>
</head>
<body>
    <form id="customForm" runat="server">
        <div>
            <asp:Calendar ID="CustomCalendar" runat="server"
OnDayRender="CustomCalendar_DayRender"
OnSelectionChanged="CustomCalendar_SelectionChanged"></asp:Calendar>
            <asp:Label ID="DaysRemainingLabel" runat="server" Text="Days remaining will
appear here"></asp:Label>
        </div>
    </form>
</body>
</html>

```

#### **webform1.cs**

```

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

namespace CustomApp
{
    public partial class WebPage1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void CustomCalendar_DayRender(object sender, DayRenderEventArgs e)
        {

            if (e.Day.Date.Day == 15 && e.Day.Date.Month == 8)
            {
                Label independenceDayLabel = new Label();
                independenceDayLabel.Text = "Independence Day";
                e.Cell.Controls.Add(independenceDayLabel);
            }

            DateTime startDate = new DateTime(2024, 09, 07);
            DateTime endDate = startDate.AddDays(5);
            CustomCalendar.SelectedDates.SelectRange(startDate, endDate);

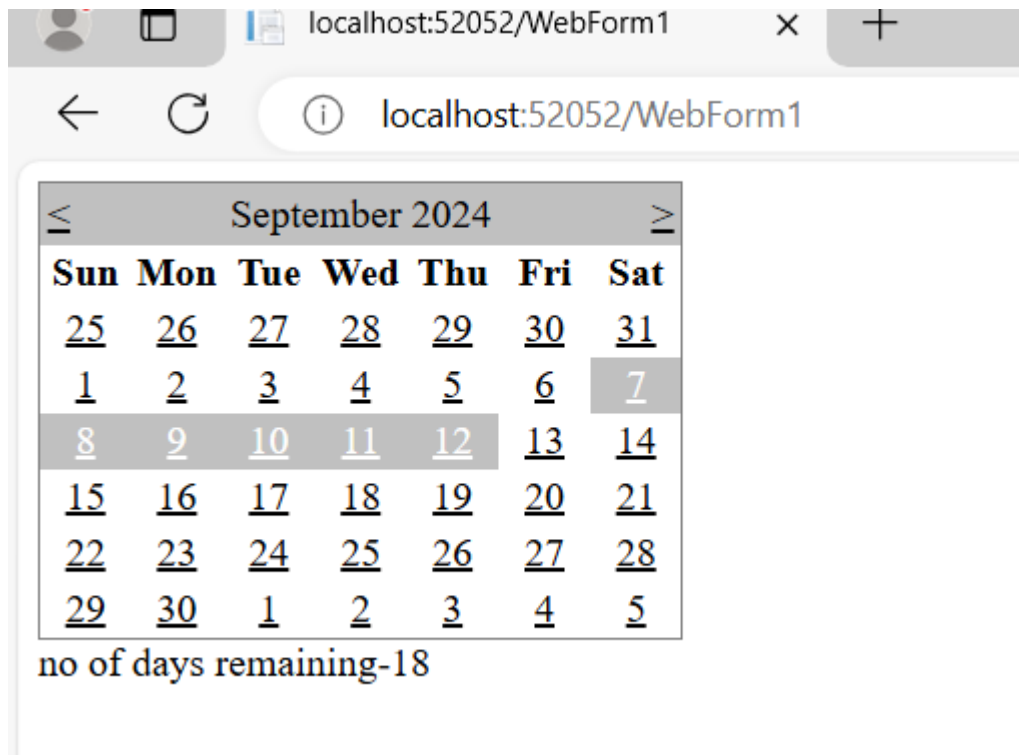
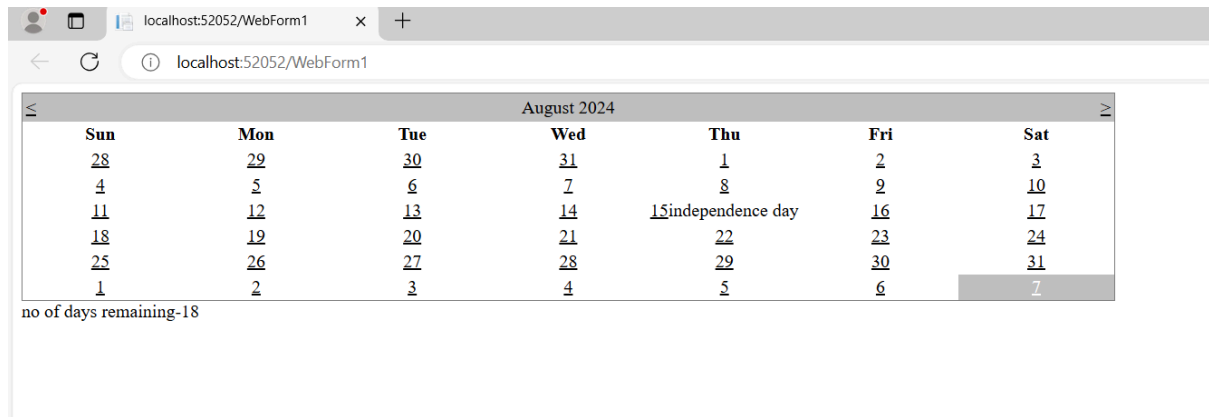
```

```

        TimeSpan remainingDays = new DateTime(2024, 08, 07) - DateTime.Now;
        DaysRemainingLabel.Text = "Number of days remaining until August 7, 2024: " +
        remainingDays.Days.ToString();
    }

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

```



## PRACTICAL 3. C

### 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. A

### 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"
```

```
TextMode="Password"></asp:TextBox><asp:RequiredFieldValidator
ID="RequiredFieldValidator2" runat="server" ControlToValidate="TextBox4"
ErrorMessage="enterpass"></asp:RequiredFieldValidator>
```

```
<br/> reenter pswd:<asp:TextBox ID="TextBox5" runat="server"
```

```
TextMode="Password"></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**

```

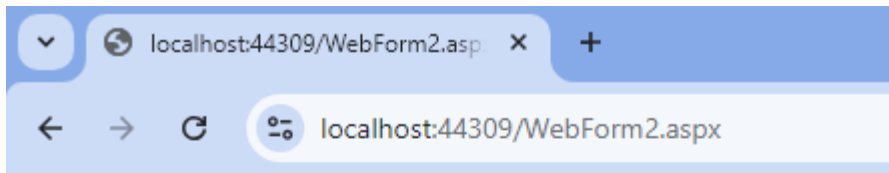
using System;
using System.Collections.Generic;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

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");
        }
    }
}

```



## PRACTICAL 4. B

### 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>

```



## PRACTICAL 4. C

### 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>

```

```

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

```

### WebUserControl1.ascx

```

<%@ 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>

```

### WebUserControl1.ascx.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:

<div>≤August 2024≥</div>						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
<u>29</u>	<u>30</u>	<u>31</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>
<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>
<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>
<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>	<u>1</u>
<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>

13 August 2024

# PRACTICAL 5. A

## 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>
```

### **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>
```

### **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>
```

### **WebForm4.aspx**

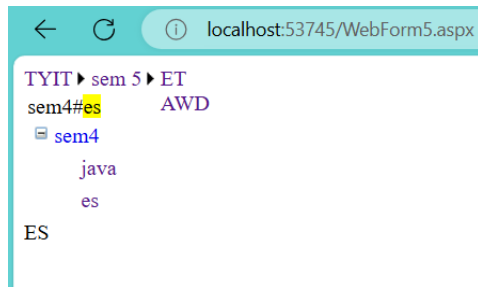
```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm4.aspx.cs"
Inherits="WebApplication5.WebForm4" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    java
</asp:Content>
```

### **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>
```

## 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>
```



## PRACTICAL 5. B

### Master page

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

```
<!DOCTYPE html>
```

```
<html>
```

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

```
  <title>TYIT Master Page</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" Style="text-align:center;">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 Text="awp"
NavigateUrl="~/WebForm7.aspx"></asp:MenuItem>
            </asp:MenuItem>
            <asp:MenuItem Text="sem6">
                <asp:MenuItem Text="et"
NavigateUrl="~/WebForm8.aspx"></asp:MenuItem>
            </asp:MenuItem>
        </Items>
    </asp:Menu>
</asp:TableCell>
<asp:TableCell>
    <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
    </asp:ContentPlaceHolder>
</asp:TableCell>
</asp:TableRow>

<asp:TableRow>
    <asp:TableCell ColumnSpan="2" Style="text-align:center;">&copy;
Copyright</asp:TableCell>
</asp:TableRow>
</asp:Table>
</div>
</form>
</body>
</html>

```

### Content page

```

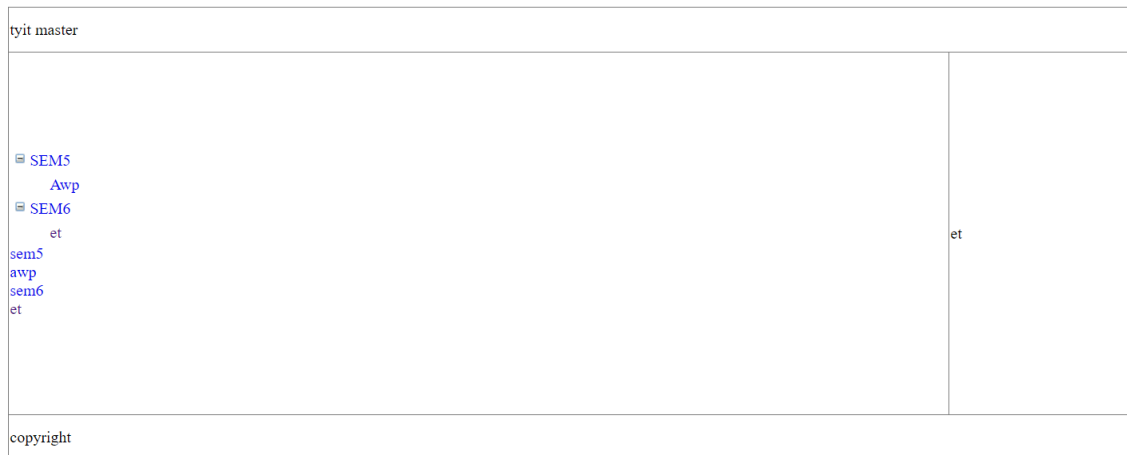
<%@ Page Title="AWP Page" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm7.aspx.cs"
Inherits="WebApplication8.WebForm7" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <h2>Awp</h2>
</asp:Content>

```



## Content page

```
<%@ Page Title="ET Page" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm8.aspx.cs"
Inherits="WebApplication8.WebForm8" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <h2>ET</h2>
</asp:Content>
```



## PRACTICAL 5. C

### 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>ViewState Example</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="Increment" OnClick="Button1_Click"
/>
        </div>
    </form>
</body>
</html>
```

## webform1.cs

```
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;
        }
    }
}
```



## 1)viewstate session



## 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)
            {

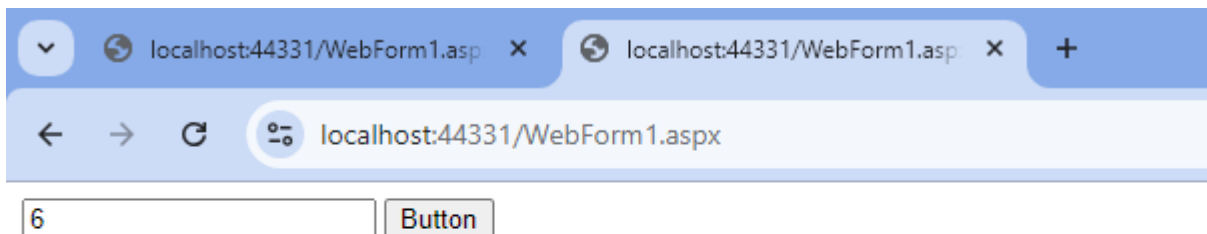
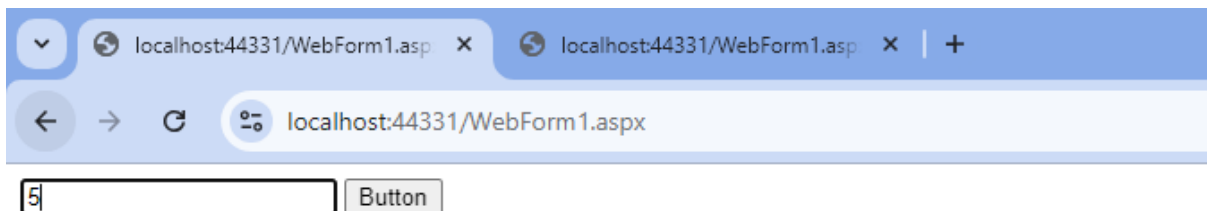
```

```

        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)

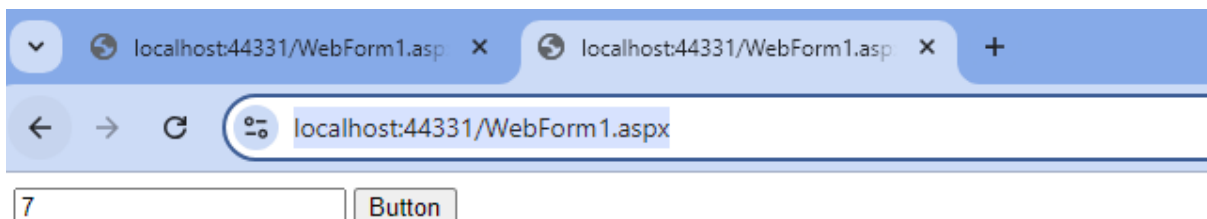
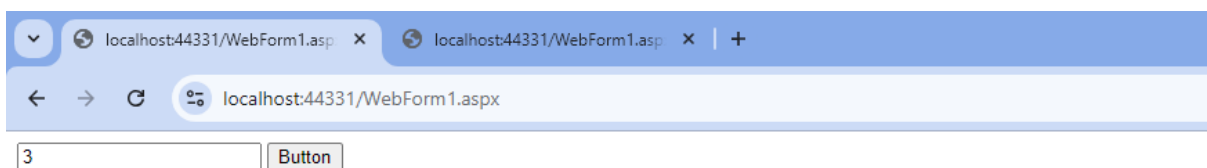
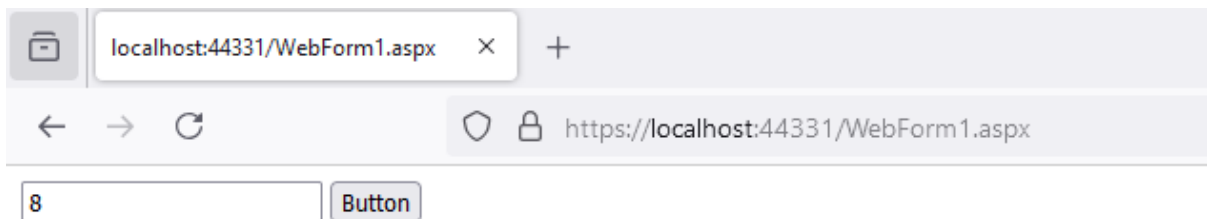
```

```

{
    if (!IsPostBack)
    {
        TextBox1.Text = "0"; // Initialize TextBox on first load
    }
}

protected void Button1_Click(object sender, EventArgs e)
{
    if (Application["a"] != null)
    {
        x = Convert.ToInt32(Application["a"]) + 1; // Increment the value from Application
    }
    TextBox1.Text = x.ToString();
    Application["a"] = x; // Store updated value in Application
}
}
}

```



## PRACTICAL 6. A

```
<%@ 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" />
```

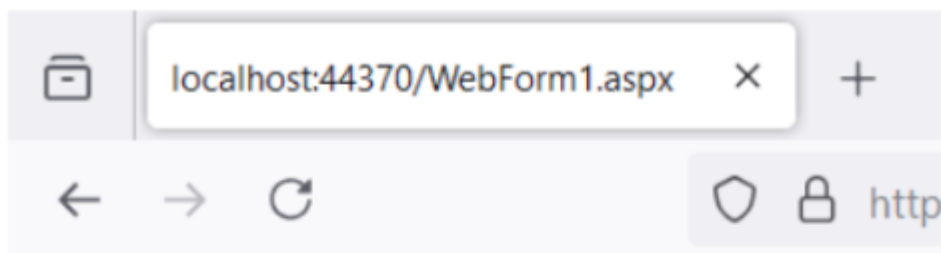
```
<asp:Parameter Name="project" Type="String" />
```

```
<asp:Parameter Name="sal" Type="String" />
```

```

        <asp:Parameter Name="address" Type="String" />
    </InsertParameters>
    <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	45
ename	sanjay
project	awd
sal	12345
address	abc
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">New</a>	
<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a>	

## PRACTICAL 6. B

### 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>

```

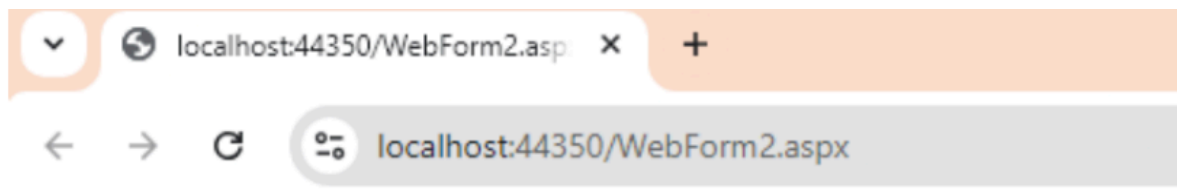
## Webform1.cs

```

using System;
using System.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	sanjay	tyit2
2	rahul	tyit4
4	varun	tyit27

## PRACTICAL7. A

# 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>
```



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

#### **webform.1.aspx.cs**

```
using System;
using System.Web;

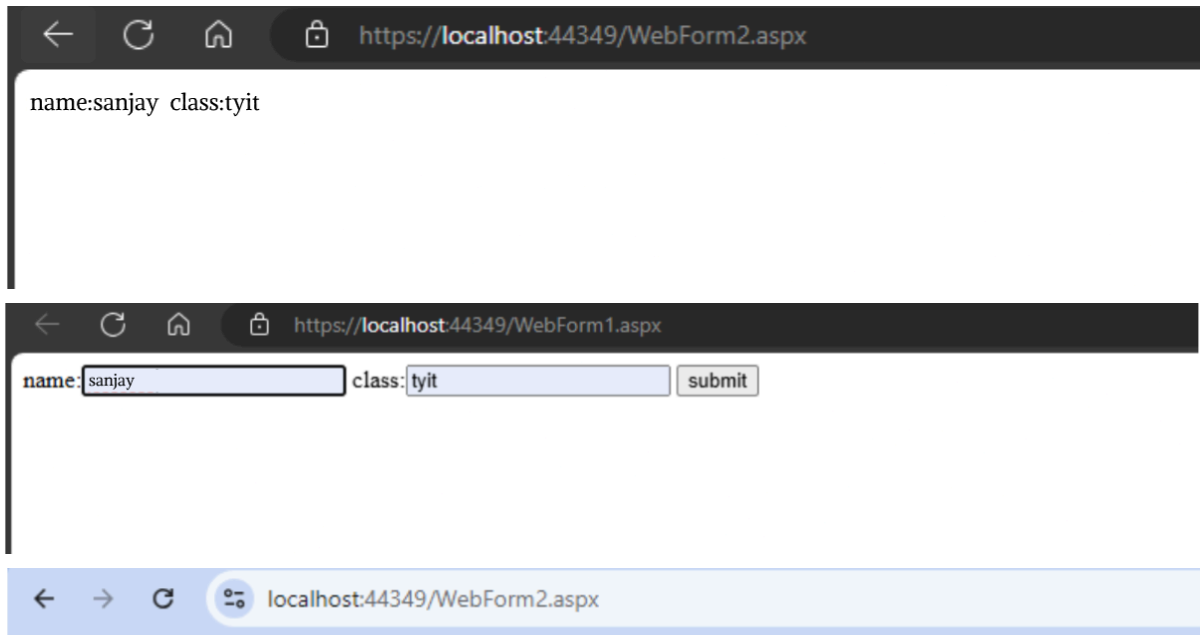
public partial class WebForm1 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    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**

```
using System;
using System.Web;

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.Web;
```

```
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;
            cookie.Expires = DateTime.Now.AddDays(10); // Cookie will persist for 10 days
            Response.Cookies.Add(cookie);
            Response.Redirect("WebForm2.aspx");
        }
    }
}
```

### **webform.2.aspx.cs**

```
using System;
```

```

using System.Web;

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"];
            }
        }
    }
}

```

## PRACTICAL7. B

### 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>Login</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            User ID: <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
            Password: <asp:TextBox ID="TextBox2" runat="server"
TextMode="Password"></asp:TextBox><br />
            <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>Welcome</title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      Welcome to the application!
    </div>
  </form>
</body>
</html>

```

### **Web.config**

```

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

```

### **webform3.aspx.cs**

```

using System;
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

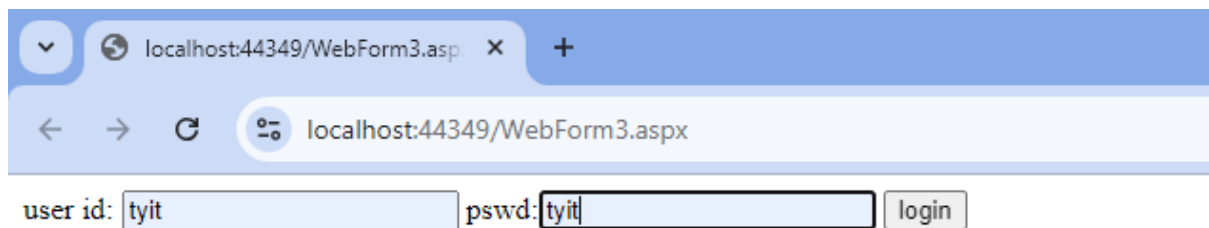
```

```

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

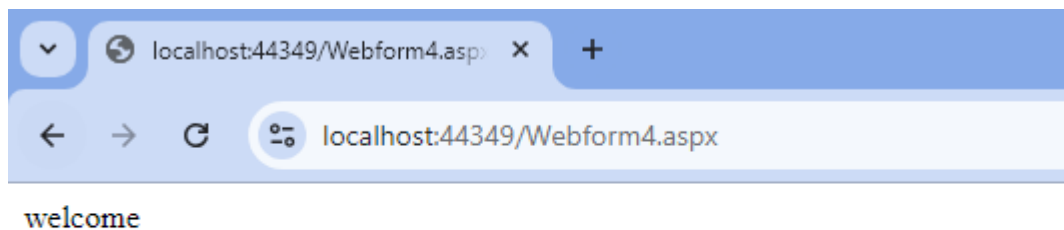
protected void Button1_Click(object sender, EventArgs e)
{
    if (FormsAuthentication.Authenticate(TextBox1.Text, TextBox2.Text))
    {
        FormsAuthentication.RedirectFromLoginPage(TextBox1.Text, false);
    }
    else
    {
        Response.Write("Invalid credentials. Please try again.");
   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

```



localhost:44349/WebForm3.aspx

user id:  pswd:



localhost:44349/Webform4.aspx

welcome

## PRACTICAL 8. A

### 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>Student Information</title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

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

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

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

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

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

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

### webform1.cs

```
using System;
using System.Data.SqlClient;
using System.Web.UI;

namespace WebApplication10
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            // No specific action needed on page load for this form.
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            // Insert record into the database
            using (SqlConnection con = new SqlConnection("Data Source=SQL;Initial
Catalog=Muskan;User ID=user1;Password=user1"))
            {
                SqlCommand cmd = new SqlCommand("INSERT INTO studinfo (Id, Name, Class)
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();
                int rowsAffected = cmd.ExecuteNonQuery();
                con.Close();

                if (rowsAffected > 0)
                {
                    Response.Write("Data inserted successfully.");
                }
                else
                {
                    Response.Write("Failed to insert data.");
                }
            }
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            // Delete record from the database
            using (SqlConnection con = new SqlConnection("Data Source=SQL;Initial
Catalog=Muskan;User ID=user1;Password=user1"))
            {
```



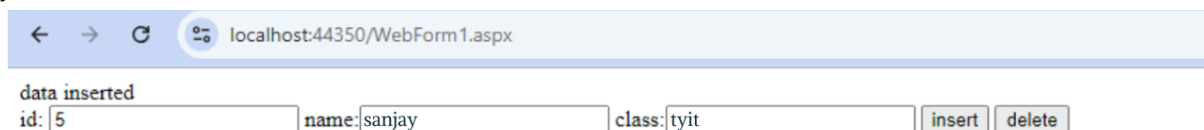
```

        SqlCommand cmd = new SqlCommand("DELETE FROM studinfo WHERE
Id=@Id", con);
        cmd.Parameters.AddWithValue("@Id", TextBox1.Text);

        con.Open();
        int rowsAffected = cmd.ExecuteNonQuery();
        con.Close();

        if (rowsAffected > 0)
        {
            Response.Write("Data deleted successfully.");
        }
        else
        {
            Response.Write("No record found with the specified ID.");
        }
    }
}
}
}

```



data inserted

id:  name:  class:

## PRACTICAL 8. B

```

<%@ 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>Age Validation</title>

```

```

</head>

```

```

<body>

```

```

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

```

```

        <div>

```

```

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

```

```

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

```

```

        </div>

```

```

    </form>

```

```

</body>

```

```

</html>

```

```

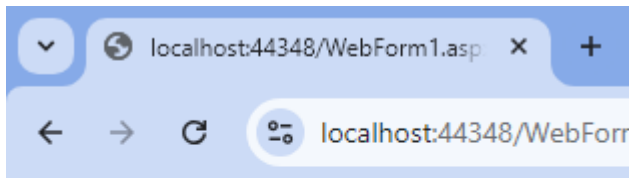
using System;
using System.Web.UI;

namespace WebApplication13
{
    class AgeException : Exception
    {
        public AgeException(string message) : base(message) { }
    }

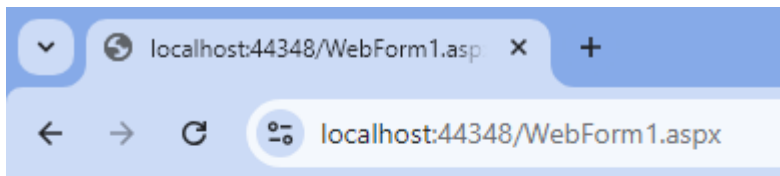
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e) { }

        protected void Button1_Click(object sender, EventArgs e)
        {
            int age = Convert.ToInt32(TextBox1.Text);
            try
            {
                if (age > 80)
                {
                    throw new AgeException("Invalid age");
                }
                Response.Write("Age is valid.");
            }
            catch (AgeException ex)
            {
                Response.Write(ex.Message);
            }
            finally
            {
                Response.Write("<br> Finally block executed.");
            }
        }
    }
}

```



invalid age  
finally executed

finally executed

## PRACTICAL 9. A

```
<%@ 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>Student Information</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="LightBlue" />
```

```
<Columns>
```

```
<asp:CommandField ShowDeleteButton="True" ShowEditButton="True" />
```

```
<asp:BoundField DataField="Id" HeaderText="Student ID" ReadOnly="True"
SortExpression="Id" />
```

```
<asp:BoundField DataField="name" HeaderText="Student 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>
```

```

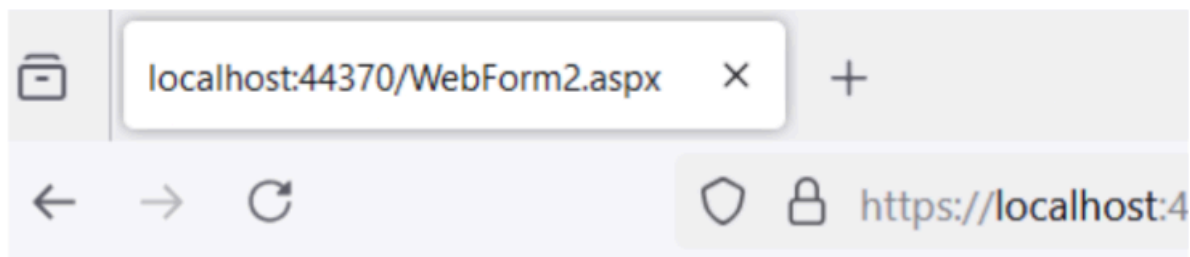
<InsertParameters>
    <asp:Parameter Name="Id" Type="Int32" />
    <asp:Parameter Name="name" Type="String" />
    <asp:Parameter Name="class" Type="String" />
</InsertParameters>
<UpdateParameters>
    <asp:Parameter Name="name" Type="String" />
    <asp:Parameter Name="class" Type="String" />
    <asp:Parameter Name="Id" Type="Int32" />
</UpdateParameters>
</asp:SqlDataSource>
<asp:FormView ID="FormView1" runat="server" DataKeyNames="Id"
DataSourceID="SqlDataSource2">
    <EditItemTemplate>
        Student 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" CommandName="Update"
Text="Update" />
        &nbsp;<asp:LinkButton ID="UpdateCancelButton" runat="server"
CommandName="Cancel" Text="Cancel" />
    </EditItemTemplate>
    <InsertItemTemplate>
        Student 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" CommandName="Insert"
Text="Insert" />
        &nbsp;<asp:LinkButton ID="InsertCancelButton" runat="server"
CommandName="Cancel" Text="Cancel" />
    </InsertItemTemplate>
    <ItemTemplate>
        Student 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>
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	2	sanjay	tyit
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	1	rahul	tyit
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	4	varun	tyit

**Id: 1**

**name:** rahul

**class:** tyit

## PRACTICAL 9. B

```

<%@ 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>Student Information Management</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>

```





	<b>Id</b>	<b>name</b>	<b>class</b>
<a href="#">Select</a>	1	sanjay	tyit
<a href="#">Select</a>	2	rahul	tyit
<a href="#">Select</a>	4	varun	tyit

<b>Id</b>	1
<b>name</b>	sanjay
<b>class</b>	tyit

Id: 1

name: sanjay

class: tyit

# PRACTICAL 10. A

## index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bootstrap Button Demo</title>
  <!-- Bootstrap CSS -->
  <link
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
rel="stylesheet">
  <!-- Optional custom CSS -->
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container mt-5">
    <h1 class="text-center">Bootstrap Button Demo</h1>
    <div class="text-center mt-4">
      <h4>Basic Buttons</h4>
      <button type="button" class="btn btn-primary">Primary</button>
      <button type="button" class="btn btn-secondary">Secondary</button>
      <button type="button" class="btn btn-success">Success</button>
      <button type="button" class="btn btn-danger">Danger</button>
      <button type="button" class="btn btn-warning">Warning</button>
      <button type="button" class="btn btn-info">Info</button>
      <button type="button" class="btn btn-light">Light</button>
      <button type="button" class="btn btn-dark">Dark</button>
      <button type="button" class="btn btn-link">Link</button>
    </div>

    <div class="text-center mt-4">
      <h4>Button Sizes</h4>
      <button type="button" class="btn btn-primary btn-lg">Large Button</button>
      <button type="button" class="btn btn-primary">Normal Button</button>
      <button type="button" class="btn btn-primary btn-sm">Small Button</button>
    </div>

    <div class="text-center mt-4">
      <h4>Button States</h4>
```

```

        <button type="button" class="btn btn-primary" id="toggleButton">Toggle
Me!</button>
    </div>
</div>

<!-- Bootstrap JS and dependencies -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"></s
cript>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
>
<!-- Optional custom JavaScript -->
<script src="script.js"></script>
</body>
</html>

```

## PRACTICAL 10. B

### 1)timer

```

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

```

```

<!DOCTYPE html>

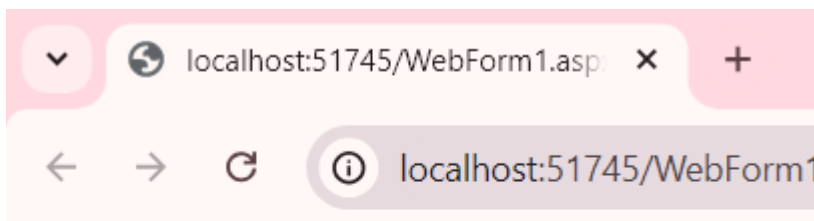
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            outside:<asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
            <asp:ScriptManager ID="ScriptManager1" runat="server"></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>
        </div>
    </form>
</body>
</html>

```

```

        </asp:UpdatePanel>
        <asp:UpdateProgress ID="UpdateProgress1" runat="server">
            <ProgressTemplate>
                plsss.....wait
            </ProgressTemplate>
        </asp:UpdateProgress>
    </div>
</form>
</body>
</html>

```



outside:19:32:12  
 inside:19:32:18  
 plsss.....wait

## 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>
</Panels>
</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>

```

## webform1.cs

```

using System;
using System.Web.UI;

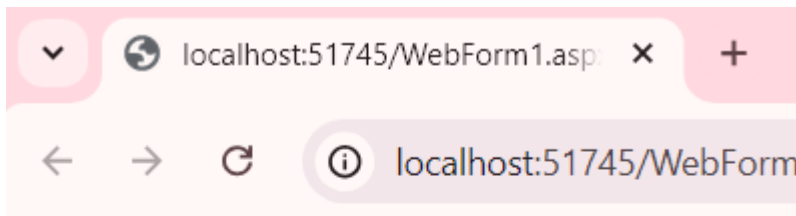
```

```

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>

```

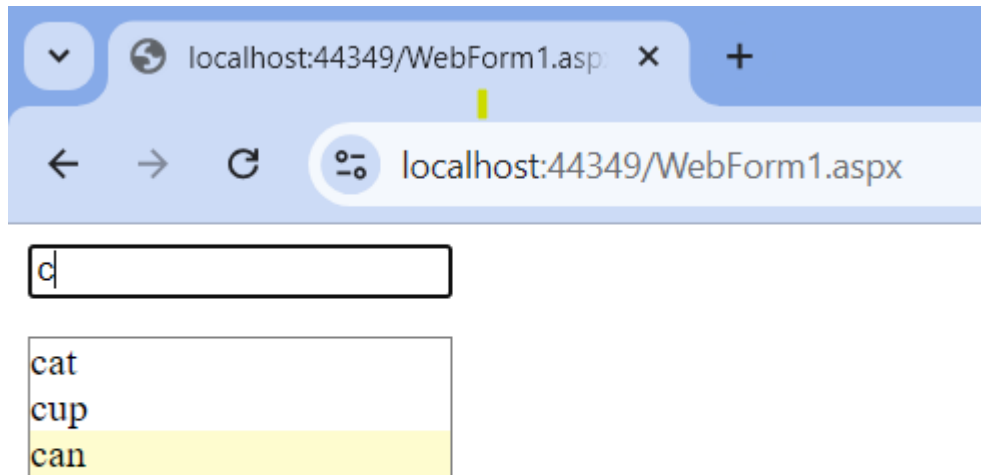
## WEBFORM1.CS

```

using System;
using System.Linq;
using System.Web.UI;

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.

#### JsonDemo.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>JSON Demo with Newtonsoft.Json</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h2>JSON Demo</h2>
            <asp:Button ID="btnSerialize" runat="server" Text="Serialize Object"
OnClick="btnSerialize_Click" />
            <asp:Label ID="lblResult" runat="server" Text="Result will be displayed
here." />
        </div>
    </form>
```



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

## JsonDemo.aspx.cs

```
using Newtonsoft.Json;
using System;
using System.Web.UI;

namespace JsonDemoApp
{
    public partial class JsonDemo : Page
    {
        protected void btnSerialize_Click(object sender, EventArgs e)
        {
            // Create a sample object
            var person = new Person
            {
                Name = "sanjay",
                Age = 20,
                Email = "sanjay@example.com"
            };

            // Serialize the object to JSON
            string jsonResult = JsonConvert.SerializeObject(person);

            // Display the result in the label
            lblResult.Text = jsonResult;
        }
    }

    // Sample class to demonstrate serialization
    public class Person
    {
        public string Name { get; set; }
        public int Age { get; set; }
        public string Email { get; set; }
    }
}
```

## OUTPUT

```
{"Name":"sanjay","Age":20,"Email":"sanjay@example.com"}
```