Practicals

1. **Demonstrate Page Life Cycle**

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

namespace WebApplication1
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_PreInit(object sender, EventArgs e)
        {
            // Text Box Control Dynamically
            TextBox txt = new TextBox();
            txt.ID = "mytext";
            txt.EnableTheming = true;
            txt.Text = "I am TextBox";
            //When you create below event handler press Tab 2 times from your
keyboard
            txt.TextChanged += new EventHandler(txt_TextChanged);
            this.form1.Controls.Add(txt);
            txt.Text = "Change Text&press Submit";
            //Checking whether value is strored From view state or not in
preIntit Event
            int i = Convert.ToInt32(ViewState["p"]) + 1;
            ViewState["p"] = i.ToString();
            Label1.Text = " Hi..";
            Label1.Text = Label1.Text + "<br/>" + " I am PreInit Event " +
ViewState["p"];
            // create button control dynamically
            Button submit_button = new Button();
            submit_button.ID = "btntxt";
            submit_button.Text = "Submit";
            //When you create below event handler press Tab 2 times from your
keyboard
            submit_button.Click += new EventHandler(submit_button_Click);
            this.form1.Controls.Add(submit_button);
        }
        protected void Page_Init(object sender, EventArgs e)
        {
            //Checking whether value is strored From view state or not in Intit
Event
            int i = Convert.ToInt32(ViewState["a"]) + 1;
            ViewState["a"] = i.ToString();
            Label1.Text = Label1.Text + "<br/>" + "I am Init Event " +
ViewState["a"];
        }
        protected void Page_InitComplete(object sender, EventArgs e)
        {
            //Checking whether value is strored From view state or not in
InitComplete Event
            int i = Convert.ToInt32(ViewState["b"]) + 1;
            ViewState["b"] = i.ToString();
            Label1.Text = Label1.Text + "<br/>" + " I am InitComplete Event " +
        ViewState["b"];
        }
```

```csharp
        protected override void OnPreLoad(EventArgs e)
        {
            //Page.EnableViewState = false;
            //Checking whether value is strored From view state or not in
OnPreLoad Event
            int i = Convert.ToInt32(ViewState["c"]) + 1;
            ViewState["c"] = i.ToString();
            Label1.Text = Label1.Text + "<br/>" + " I am PreLoad Event " +
ViewState["c"];
        }
        protected void Page_Load(object sender, EventArgs e)
        {
            //Checking whether value is strored From view state or not in Load
Event
            int i = Convert.ToInt32(ViewState["d"]) + 1;
            ViewState["d"] = i.ToString();
            Label1.Text = Label1.Text + "<br/>" + "I am Load Event " +
ViewState["d"];
        }
        protected void Page_LoadComplete(object sender, EventArgs e)
        {
            //Checking whether value is strored From view state or not in
LoadComplete Event
            int i = Convert.ToInt32(ViewState["e"]) + 1;
            ViewState["e"] = i.ToString();
            Label1.Text = Label1.Text + "<br/>" + "I am LoadComplete Event " +
            ViewState["e"];
        }
        protected override void OnPreRender(EventArgs e)
        {
            //Checking whether value is strored From view state or not in
OnPrerender Event
            int i = Convert.ToInt32(ViewState["f"]) + 1;
            ViewState["f"] = i.ToString();
            Label1.Text = Label1.Text + "<br/>" + "I am PreRender Event " +
ViewState["f"];
        }
        protected override void OnSaveStateComplete(EventArgs e)
        {
            //Checking whether value is strored From view state or not in
OnSaveComplete
            //Event
        int i = Convert.ToInt32(ViewState["g"]) + 1;
            ViewState["g"] = i.ToString();
            Label1.Text = Label1.Text + "<br/>" + "I am SaveStateComplete Event "
+
            ViewState["g"];
        }
        protected void Page_UnLoad(object sender, EventArgs e)
        {
            //Checking whether value is strored From view state or not in UnLoad
Event
            int i = Convert.ToInt32(ViewState["h"]) + 1;
            ViewState["h"] = i.ToString();
            Label1.Text = Label1.Text + "<br/>" + "I am UnLoad Event" +
ViewState["h"];
            //Response.Write("hello ji");//when you run this will show error
        }
        protected void txt_TextChanged(object sender, EventArgs e)
        {
            //Checking whether value is strored From view state or not in
tet_Change Event
            int i = Convert.ToInt32(ViewState["i"]) + 1;
```

```
                ViewState["i"] = i.ToString();
                Label1.Text = "I am Text change Event " + ViewState["i"];
            }
        protected void submit_button_Click(object sender, EventArgs e)
        {
            //Checking whether value is strored From view state or not in
Submit_button Event
            int i = Convert.ToInt32(ViewState["j"]) + 1;
                ViewState["j"] = i.ToString();
                Label1.Text = Label1.Text + "<br/>" + " I am Submit_button Event " +
            ViewState["j"];
        }

    }
}
```

2. Demonstrate Web Form

Design:

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

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

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


    <asp:Panel ID="Panel1" runat="server" BackColor="#FFFF99" ForeColor="#003399">

    <div align="center"

            style="font-family: 'Franklin Gothic Heavy'; font-size: xx-large; text-
decoration: underline; font-style: italic; color: #FF6699; background-color: #0066CC;
">
        OneStopShop</div>
    <p align="left"
        style="font-family: 'Times New Roman', Times, serif; font-size: large;">
        SignUp Form</p>
        Name :
        <asp:TextBox ID="TextBox1" runat="server" Width="317px"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
            ControlToValidate="TextBox1" ErrorMessage="*"
ForeColor="Red"></asp:RequiredFieldValidator>
        <br />
        <br />
        Email ID:
        <asp:TextBox ID="TextBox2" runat="server" Width="306px"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
            ControlToValidate="TextBox2" ErrorMessage="*"
ForeColor="Red"></asp:RequiredFieldValidator>
        <br />
        <br />
        Mobile No. :<asp:TextBox ID="TextBox3" runat="server"
Width="301px"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"
```

```
                    ControlToValidate="TextBox3" ErrorMessage="*"
ForeColor="Red"></asp:RequiredFieldValidator>
            <br />
            <br />
            Address:
            <asp:TextBox ID="TextBox4" runat="server" Height="62px"
Width="328px"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator4" runat="server"
                    ControlToValidate="TextBox4" ErrorMessage="*"
ForeColor="Red"></asp:RequiredFieldValidator>
            <br />
            <br />
            Create Password:
            <asp:TextBox ID="TextBox5" runat="server" Width="253px"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server"
                    ControlToValidate="TextBox5" ErrorMessage="*"
ForeColor="Red"></asp:RequiredFieldValidator>
             <asp:CompareValidator ID="CompareValidator1" runat="server"
                    ControlToCompare="TextBox5" ControlToValidate="TextBox6"
                    ErrorMessage="Password not match" ForeColor="Red"></asp:CompareValidator>
            <br />
            <br />
            Re-enter Password:
            <asp:TextBox ID="TextBox6" runat="server" Width="240px"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator6" runat="server"
                    ControlToValidate="TextBox6" ErrorMessage="*"
ForeColor="Red"></asp:RequiredFieldValidator>
            <br />
            <br />

             &n
bsp;             &nbs
p;     
            <asp:Button ID="Button1" runat="server" BackColor="White" ForeColor="#003399"
                    Text="Submit" onclick="Button1_Click" />
            <br />
        </asp:Panel>
        <p>
             </p>
        <p>
             </p>
        <asp:Panel ID="Panel2" runat="server">
            Details Entered:<br />
            <br />
            <asp:Label ID="Label1" runat="server" Text="Name"></asp:Label>
            <br />
            <br />
            <asp:Label ID="Label2" runat="server" Text="Email ID"></asp:Label>
            <br />
            <br />
            <asp:Label ID="Label3" runat="server" Text="Mobile"></asp:Label>
            <br />
            <br />
            <asp:Label ID="Label4" runat="server" Text="Address"></asp:Label>
            <br />
            <br />
            <asp:Label ID="Label5" runat="server" Text="Password"></asp:Label>
        </asp:Panel>
        </form>
</body>
</html>
```

C# Code:

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

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

    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Response.Write("Welcome To OneStopShop");

        Label1.Text = TextBox1.Text;
        Label2.Text = TextBox2.Text;
        Label3.Text = TextBox3.Text;
        Label4.Text = TextBox4.Text;
        Label5.Text = TextBox5.Text;

    }
}
```

3. Demonstrate
➔ Ad rotator

Design:

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

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

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

        AD-Rotator Demo<br />
        <br />
        <asp:AdRotator ID="AdRotator1" runat="server"
AdvertisementFile="~/XMLFile.xml"
        Height="200px" Width="500px"  />

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

Jf.aspx

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

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

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

Wh.aspx

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

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

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

Xml code:

```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
  <Ad>
    <ImageUrl>img-2.jpg</ImageUrl>
    <NavigateUrl>D:\MCA program\Raisoni\.Net\Practical\Prac3\jf.aspx</NavigateUrl>
    <width>50</width>
    <height>50</height>
  </Ad>
  <Ad>
    <ImageUrl>img-3.jpg</ImageUrl>
    <NavigateUrl>D:\MCA program\Raisoni\.Net\Practical\Prac3\wh.aspx</NavigateUrl>
    <width>50</width>
    <height>50</height>
  </Ad>
</Advertisements>
```

➜ Panel

Design:

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

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

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

    <form id="form1" runat="server">
    <asp:Panel ID="Panel1" runat="server" BackColor="Gray" BorderColor="Black"
        BorderStyle="Double" Height="200px" HorizontalAlign="Center" Width="300px">
        Login<br />
        <br />
        User Name:
        <asp:TextBox ID="txtusername" runat="server"></asp:TextBox>
        <br />
        <br />
        Password:
        <asp:TextBox ID="txtpass" runat="server" TextMode="Password"></asp:TextBox>
        <br />
        <br />

              &n
bsp;  
        <asp:Button ID="btnsub" runat="server" onclick="btnsub_Click" Text="Submit" />
    </asp:Panel>
    <br />
    <br />
    <br />
    <asp:Label ID="lbl1" runat="server"></asp:Label>
    </form>

</body>
</html>

>> C# CODE:

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

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

        }

        protected void btnsub_Click(object sender, EventArgs e)
        {
            String username = txtusername.Text;
            String pwd = txtpass.Text;

            if (username == "abc" && pwd == "123")
            {
```

```
                    lbl1.Text = "Login Successful";
            }
            else
                    lbl1.Text = "Invalid Username And Password";
        }
    }
}
```

➔ Multiview

Design:

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

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <asp:MultiView ID="MultiView1" runat="server">

        <asp:View ID="View1" runat="server">
            <asp:Label ID="Label1" runat="server" Text="First View" BackColor="Black"
                Font-Italic="True" Font-Names="Bahnschrift Condensed" Font-
Size="Large"
                ForeColor="HotPink" Height="37px" Width="271px"></asp:Label>
            <br />
            <br />
            <h2> Welcome to First View</h2>
        </asp:View>

          <asp:View ID="View2" runat="server">
            <asp:Label ID="Label2" runat="server" Text="Second View" BackColor="Black"
                Font-Italic="True" Font-Names="Bahnschrift Condensed" Font-Size="X-
Large"
                ForeColor="HotPink" Height="44px" Width="278px"></asp:Label>
            <br />
            <br />
            <h2> Welcome to Second View</h2>
        </asp:View>

    </asp:MultiView>
    <br />
 
    <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="View 1" />
 
    <asp:Button ID="Button2" runat="server" onclick="Button2_Click" Text="View 2" />
    </form>

        </body>
</html>
```

C# Code:

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

public partial class Multiview : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!IsPostBack)
            MultiView1.ActiveViewIndex = 0;
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        MultiView1.ActiveViewIndex = 0;
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        MultiView1.ActiveViewIndex = 1;
    }
}
```

➔ Calendra

Design:

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

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div style="font-family: Gabriola; font-size: 150%; color: #FF0000">

        Select Date From Calendra<br />
        <asp:Calendar ID="Calendar1" runat="server" Width="487px" Height="350px"
         OnSelectionChanged="Calendra1_SelectionChanged"></asp:Calendar>
        <br />
        <asp:Label ID="Label1" runat="server" Text="Selected Date"></asp:Label>

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

C# Code:

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

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

    }
    protected void Calendra1_SelectionChanged(object sender, EventArgs e)
    {
        Label1.Text = "Selected Date Is: " + Calendar1.SelectedDate.ToString("D");
    }
}
```

4. Demonstrate Validation Controls

Design:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Student_form.aspx.cs"
Inherits="Prac_4.Student_form" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .style1
        {
            height: 35px;
        }
        .style2
        {
            height: 38px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
    <div align="center"
        style="border-style: solid; border-color: #000000; background-color: #99FF99;
background-image: inherit">
    <h1> Student INFO</h1>

    <table style="font-family: 'Bahnschrift Light SemiCondensed'; background-color:
#FFCCCC; border-style: outset; border-color: #FF99CC; height: 183px; width: 463px;"
            align="center" cellpadding="5px" cellspacing="3px" frame="box"
            title="Student Info">
    <tr>
    <td>Name:</td>
    <td>
        <asp:TextBox ID="txtname" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
            ControlToValidate="txtname" ErrorMessage="Mandatory"
ForeColor="Red">*</asp:RequiredFieldValidator>
        </td>
    </tr>
    <tr>
    <td>Email:</td>
    <td>
        <asp:TextBox ID="txtmail" runat="server" TextMode="Email"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator7" runat="server"
```

```
                    ErrorMessage="Mandatory" ControlToValidate="txtmail"
ForeColor="Red">*</asp:RequiredFieldValidator>
        <asp:RegularExpressionValidator ID="RegularExpressionValidator1"
runat="server"
            ControlToValidate="txtmail" ErrorMessage="Email does not exit"
ForeColor="Red"
            ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*">Wrong
Mail</asp:RegularExpressionValidator>
        </td>

    </tr>
    <tr>
    <td>Gender:</td>
    <td>
        <asp:DropDownList ID="DropDownList1" runat="server">
            <asp:ListItem>Male</asp:ListItem>
            <asp:ListItem>Female</asp:ListItem>
        </asp:DropDownList>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"
            ControlToValidate="DropDownList1" ErrorMessage="Mandatory"
ForeColor="Red">*</asp:RequiredFieldValidator>
    </td>
    </tr>
    <tr>
    <td class="style2">Age:</td>
    <td class="style2">
        <asp:TextBox ID="txtage" runat="server"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator8" runat="server"
            ErrorMessage="Mandatory" ControlToValidate="txtage"
ForeColor="Red">*</asp:RequiredFieldValidator>
        <asp:RangeValidator ID="RangeValidator1" runat="server"
            ControlToValidate="txtage" ErrorMessage="You are a Robot" ForeColor="Red"
            MaximumValue="25" MinimumValue="18">Age</asp:RangeValidator>
        </td>

    </tr>
    <tr>
    <td>Password:</td>
    <td>
        <asp:TextBox ID="txtpwd" runat="server" TextMode="Password"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator9" runat="server"
            ErrorMessage="Mandatory" ControlToValidate="txtpwd"
ForeColor="Red">*</asp:RequiredFieldValidator>
        <asp:CompareValidator ID="CompareValidator1" runat="server"
            ControlToCompare="txtrepwd" ControlToValidate="txtpwd"
            ErrorMessage="Password Does not Match" ForeColor="Red">Worng
Password</asp:CompareValidator>
        </td>

    </tr>
    <tr>
    <td class="style1">Repeat-Password</td>
    <td class="style1">
        <asp:TextBox ID="txtrepwd" runat="server" TextMode="Password"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator10" runat="server"
            ErrorMessage="Mandatory" ControlToValidate="txtrepwd"
ForeColor="Red">*</asp:RequiredFieldValidator>
        </td>

    </tr>
    </table>
```

```
        <br />

        <asp:Button ID="btnsave" runat="server" Text="Save" BackColor="#FFFF99"
            ForeColor="#FF99CC" onclick="btnsave_Click" />
         
        <asp:Button ID="btnclear" runat="server" BackColor="#FFFF99"
            ForeColor="#FF99CC"  Text="Clear" onclick="btnclear_Click" />
        <br />
        <br />
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
    </div>
    </form>
</body>
</html>
```

C# CODE:

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

namespace Prac_4
{
    public partial class Student_form : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void btnsave_Click(object sender, EventArgs e)
        {
            Label1.Text = "Record Saved....!!!";
        }

        protected void btnclear_Click(object sender, EventArgs e)
        {
            txtname.Text = "";
            txtpwd.Text = "";
            txtrepwd.Text = "";
            txtage.Text = "";
            txtmail.Text = "";
            DropDownList1.Text = "";
        }
    }
}
```

5. Demonstrate Intrinsic Object
➔ Request Object

Design:

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

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

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

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

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

C# Code:

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Text;
using System.Collections.Specialized;

public partial class Request : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        StringBuilder sbInfo = new StringBuilder();

        //Display some of the path related properties
        //of the HttpRequest object

        sbInfo.Append("The Url of the ASPX page: " + Request.Url + "<br>");
        sbInfo.Append("The Virtual File Path: " + Request.FilePath + "<br>");
        sbInfo.Append("The Physical File Path: " + Request.PhysicalPath + "<br>");
        sbInfo.Append("The Application Path: " + Request.ApplicationPath + "<br>");
        sbInfo.Append("The Physical Application Path: " +
Request.PhysicalApplicationPath + "<br>");

        //Display the request header

        sbInfo.Append("Request Header: ");
        sbInfo.Append("<br>");
        NameValueCollection nvcHeaders = Request.Headers;
        String[] astrKeys = nvcHeaders.AllKeys;

        //Iterate through all header keys
        //and display their values
        foreach (String strKey in astrKeys)
        {
            sbInfo.Append(strKey + ": " + nvcHeaders[strKey].ToString());
            sbInfo.Append("<br>");
        }

        //Call MapPath() method to find the physical path
        // of stepbystep3_2.aspx

        sbInfo.Append("The physical path of Request.aspx: ");
```

```csharp
        sbInfo.Append(Request.MapPath("Request.aspx"));
        lblinfo.Text = sbInfo.ToString();
    }
}
```

➔ Response Object

Design:

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

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

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

        <asp:LinkButton ID="LinkButton1" runat="server"
onclick="LinkButton1_Click">LinkButton</asp:LinkButton>

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

C# Code:

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

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

    }
    protected void LinkButton1_Click(object sender, EventArgs e)
    {
        //Append A Header to the response to force a
        // Download of Summary.txt as an attachment

        Response.AppendHeader("Content-Disposition","Attachment;FileName= " +
"summary.txt");

        //Set the Content type to text/plain
        //As the download file is a txt file
        Response.ContentType = "text/plain";

        //Write the file to the Response
        Response.WriteFile("summary.txt");
```

```
            //Stop Further exceution of the page
            Response.End();
        }
}
```

➔ Server Utility Object

Design:

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

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

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

</body>
</html>
```

C# CODE:

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

namespace Prac
{
    public partial class Server_utli : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            // Write to the response
            // using the Server.HtmlEncode() method
            //so that the browser does not parse
            //the text into HTML elements

            Response.Write(Server.HtmlEncode(
                "To include a tittle in the tiltle bar, " +
                "enclose your chosen title between the " +
                "pairs of the <title>...</title> element" +
                "in the Html <head> element."));

            Response.Write(Server.HtmlEncode(
                "For example,<title>" +
                "Using the HtmlEncode() method </title>."));
        }
    }
}
```

➔ Browser Capabilities

Design:

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

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

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

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

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

C# Code:

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

public partial class Browser : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        StringBuilder sbText = new StringBuilder();

        // Get the reference to the
        // HttpBrowserCapabilities object

        HttpBrowserCapabilities browser = Request.Browser;

        // Display the properties of the
        // HttpBrowserCapbilities Class

        sbText.AppendFormat("Browser : " +
            browser.Browser + "<br>");
        sbText.AppendFormat("Browser Version : " +
            browser.Version + "<br>");
        sbText.AppendFormat("Client's Platform : " +
            browser.Platform + "<br>");
        sbText.AppendFormat(".NET Clr Version : " +
            browser.ClrVersion + "<br>");
        sbText.AppendFormat("ECMA Script Version : " +
            browser.EcmaScriptVersion + "<br>");
        sbText.AppendFormat("JavaScript Support : " +
            browser.JavaScript + "<br>");
        sbText.AppendFormat("Microsoft HTML Document Object Model Version : " +
            browser.MSDomVersion + "<br>");
        sbText.AppendFormat("World Wide Web (W3C) XML Document : " +
            "Object Model Version: " +
            browser.W3CDomVersion + "<br>");
```

```
            lblinfo.Text = sbText.ToString();

    }
}
```

6. Demonstrate State Management

➔ View State:

Design:

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

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <p>
        User Name:
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
    </p>
    <p>
        <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Clear"
/>
 
        <asp:Button ID="Button2" runat="server" onclick="Button2_Click"
            Text="Display" />
    </p>
    <p>
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
    </p>
    </form>
</body>
</html>
```

C# CODE:

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

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

        }

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

```csharp
        {
            ViewState["username"] = TextBox1.Text;
            TextBox1.Text = "";
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Label1.Text = ViewState["username"].ToString();
        }
    }
}
```

➔ Cookies

Design:

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

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

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

        User Name:
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <br />
        <br />
        Password:
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
        <br />
        <br />
        <asp:Button ID="btn1" runat="server" onclick="btn1_Click"
            Text="Create Cookie" />
 
        <asp:Button ID="btn2" runat="server" onclick="btn2_Click"
            Text="Display Cookie" />
 
        <asp:Button ID="btn3" runat="server" onclick="btn3_Click"
            Text="Delete Cookie" />
        <br />
        <br />
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>

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

C# CODE:

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

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

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

        }

        protected void btn1_Click(object sender, EventArgs e)
        {
            Response.Cookies["name"].Value = TextBox1.Text;
            Response.Cookies["name"].Expires = DateTime.Now.AddMinutes(1);
            Response.Cookies["pwd"].Value = TextBox2.Text;
            Response.Cookies["pwd"].Expires = DateTime.Now.AddMinutes(1);
            Label1.Text = "Cookie Created";
            TextBox1.Text = "";
            TextBox2.Text = "";
        }

        protected void btn2_Click(object sender, EventArgs e)
        {
            if (Response.Cookies["name"] == null && Request.Cookies["pwd"] == null)
            {
                Label1.Text = "No Cookies Found";
            }
            else
            {
                TextBox1.Text = Request.Cookies["name"].Value;
                TextBox2.Text = Request.Cookies["pwd"].Value;
            }
        }

        protected void btn3_Click(object sender, EventArgs e)
        {
            if (Response.Cookies["name"] == null && Request.Cookies["pwd"] == null)
            {
                Label1.Text = "No Cookies Found";
            }
            else
            {
                Response.Cookies["name"].Expires = DateTime.Now.AddMinutes(-1);
                Response.Cookies["pwd"].Expires = DateTime.Now.AddMinutes(-1);
                Label1.Text = "Cookies Deleted";
            }
        }
    }
}
```

➔ Session

Design

>> Session1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Session1.aspx.cs"
Inherits="Prac.Session1" %>
```

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
<h1> Session State Data</h1>
    <p> FirstName:
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
    </p>
    <p> LastName:
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
    </p>
    <p>
        <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
            Text="Set SessionState DAta" />
    </p>
    </form>
</body>
</html>
```

>>Session2.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Session2.aspx.cs"
Inherits="Prac.Session2" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <h3> Session 2 </h3>
    <p> Welcome
        <asp:Label ID="lblwlc" runat="server" Text="Label"></asp:Label>
    </p>
    <p> Your FirstName:
        <asp:Label ID="lblname" runat="server" Text="Label"></asp:Label>
    </p>
    <p> Your LastName:
        <asp:Label ID="lbllast" runat="server" Text="Label"></asp:Label>
    </p>
    </form>
</body>
</html>
```

C# CODE:

>>Session1

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

```
namespace Prac
{
    public partial class Session1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Session["FirstName"] = TextBox1.Text;
            Session["LastName"] = TextBox2.Text;
            Response.Redirect("Session2.aspx");
        }
    }
}
```

>>Session2

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

namespace Prac
{
    public partial class Session2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                if (Session["FirstName"] == null && Session["LastName"] == null)
                {
                    Session["FirstName"] = "Aspdotent";
                    Session["LastName"] = "Aachal";
                    lblwlc.Text = "Welcome" + Session["FirstName"] +
Session["Lastname"];
                }
                else
                {
                    lblwlc.Text = Session["FirstName"] + " " + Session["LastName"];
                    lblname.Text = Session["FirstName"].ToString();
                    lbllast.Text = Session["LastName"].ToString();
                }
            }
        }
    }
}
```
➔   Application State

Design

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

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <h2> Application State</h2>
    <p>
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
    </p>
    <p>
        <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
            Text="Click To Visit" />
    </p>
    </form>
</body>
</html>
```

C# CODE:

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

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

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            int count = 0;
            if (Application["Visit"] != null)
            {
                count = Convert.ToInt32(Application["Visit"].ToString());
            }
            count = count +1;
            Application["Visit"] = count;
            Label1.Text= "Total Visit = " + count.ToString();
        }
    }
}
```

7. Master Page:

➔ Master

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="pract7.master.cs"
Inherits="Prac7.pract7" %>
```

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>GHRIBMPORT</title>
    <asp:ContentPlaceHolder ID="head" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body>

    <header>
        <h1 align="center" style="background-color: #FFFF99">GHRIBM PORTAL</h1>
    </header>

    <nav id="nav">
    <ul>
        <li><a href="home.aspx">Home</a></li>
        <li><a href="about.aspx">About</a></li>
        <li><a href="contact.aspx">Contact</a></li>
    </ul>
</nav>

<footer> <h3 align="center" style="background-color: #FFFF99">copyright
@ghribm2023</h3></footer>

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

➔ Home.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/pract7.Master"
AutoEventWireup="true" CodeBehind="home.aspx.cs" Inherits="Prac7.home" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<h4> This is Home Page</h4>
</asp:Content>
```

➔ About.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/pract7.Master"
AutoEventWireup="true" CodeBehind="about.aspx.cs" Inherits="Prac7.about" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<h4> This is About Page</h4>
</asp:Content>
```

➔ Contact.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/pract7.Master"
AutoEventWireup="true" CodeBehind="contact.aspx.cs" Inherits="Prac7.contact" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
```

```
<h4> This is Contact Page</h4>
</asp:Content>
```

➔ SiteMapView

SiteMap File:

```
<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
    <siteMapNode url="Home.aspx" title="Home...."  description="">
        <siteMapNode url="About_us.aspx" title="About Us...."  description="" >
        <siteMapNode url="Help.aspx" title="Help...."  description="" />
    </siteMapNode>
    </siteMapNode>
</siteMap>
```

- Home Design:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Home.aspx.cs"
Inherits="Prac_7A.Home" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <h1> HOME.....!!!</h1>
        <asp:SiteMapPath ID="SiteMapPath1" runat="server">
        </asp:SiteMapPath>
    </div>
    </form>
</body>
</html>
```

- About_us Design:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="About_us.aspx.cs"
Inherits="Prac_7A.About_us" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <h1> About Us....!!!!</h1>
        <asp:SiteMapPath ID="SiteMapPath1" runat="server">
        </asp:SiteMapPath>
    </div>
    </form>
</body>
</html>
```

- Help Design:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Help.aspx.cs"
Inherits="Prac_7A.Help" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <h1>HELP....!!</h1>
        <asp:SiteMapPath ID="SiteMapPath1" runat="server">
        </asp:SiteMapPath>
    </div>
    </form>
</body>
</html>
```

➔ TreeView & Menu

Design:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="Prac_7A.WebForm1" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:Menu ID="Menu1" runat="server" BackColor="#B5C7DE"
            DynamicHorizontalOffset="2" Font-Names="Verdana" Font-Size="0.8em"
            ForeColor="#284E98" Orientation="Horizontal" StaticSubMenuIndent="10px">
            <DynamicHoverStyle BackColor="#284E98" ForeColor="White" />
            <DynamicMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
            <DynamicMenuStyle BackColor="#B5C7DE" />
            <DynamicSelectedStyle BackColor="#507CD1" />
            <Items>
                <asp:MenuItem NavigateUrl="~/Home.aspx" Target="new" Text="Home"
Value="Home">
                </asp:MenuItem>
                <asp:MenuItem NavigateUrl="~/About_us.aspx" Target="new" Text="About
Us"
                    Value="About Us">
                    <asp:MenuItem NavigateUrl="~/Help.aspx" Target="new" Text="Help"
Value="Help">
                    </asp:MenuItem>
                </asp:MenuItem>
            </Items>
```

```
                <StaticHoverStyle BackColor="#284E98" ForeColor="White" />
                <StaticMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
                <StaticSelectedStyle BackColor="#507CD1" />
            </asp:Menu>
            <br />
            <br />
            <asp:TreeView ID="TreeView1" runat="server" Height="162px" ImageSet="Simple"
                NodeIndent="10" Width="164px">
                <HoverNodeStyle Font-Underline="True" ForeColor="#DD5555" />
                <Nodes>
                    <asp:TreeNode NavigateUrl="~/Home.aspx" Target="new" Text="Home"
Value="Home">
                    </asp:TreeNode>
                    <asp:TreeNode NavigateUrl="~/About_us.aspx" Target="new" Text="About
Us"
                        Value="About Us">
                        <asp:TreeNode NavigateUrl="~/Help.aspx" Target="new" Text="Help"
Value="Help">
                        </asp:TreeNode>
                    </asp:TreeNode>
                </Nodes>
                <NodeStyle Font-Names="Verdana" Font-Size="8pt" ForeColor="Black"
                    HorizontalPadding="0px" NodeSpacing="0px" VerticalPadding="0px" />
                <ParentNodeStyle Font-Bold="False" />
                <SelectedNodeStyle Font-Underline="True" ForeColor="#DD5555"
                    HorizontalPadding="0px" VerticalPadding="0px" />
            </asp:TreeView>
        </div>
        </form>
</body>
</html>
```

- Home Design

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Home.aspx.cs"
Inherits="Prac_7A.Home" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <h1> HOME.....!!!</h1>
    </div>
    </form>
</body>
</html>
```

- About us Design

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="About_us.aspx.cs"
Inherits="Prac_7A.About_us" %>

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

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <h1> About Us....!!!!</h1>
    </div>
    </form>
</body>
</html>
```

- Help Design

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Help.aspx.cs"
Inherits="Prac_7A.Help" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <h1>HELP....!!</h1>
    </div>
    </form>
</body>
</html>
```

8. Data Connection:
➔ Design:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Crud.aspx.cs"
Inherits="WebApplication1_demo.Crud" %>

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

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div align="center" style="font-size: 80px">
    Student Info
    </div>
    <asp:Table ID="Tblstd" runat="server" Width="409px" BackColor="#FFFF99"
        BorderStyle="Solid" Height="167px">
        <asp:TableRow ID="TableRow1" runat="server">
            <asp:TableCell ID="TableCell6" runat="server">Student ID</asp:TableCell>
            <asp:TableCell ID="TableCell7" runat="server">
                <asp:TextBox ID="txtsid" runat="server"></asp:TextBox></asp:TableCell>
        </asp:TableRow>
        <asp:TableRow runat="server">
```

```
                    <asp:TableCell runat="server">Student Name</asp:TableCell>
                    <asp:TableCell ID="TableCell3" runat="server">
                        <asp:TextBox ID="txtsname"
runat="server"></asp:TextBox></asp:TableCell>
            </asp:TableRow>
            <asp:TableRow runat="server">
            <asp:TableCell ID="TableCell1" runat="server">Student Address</asp:TableCell>
            <asp:TableCell ID="TableCell4" runat="server">
                        <asp:TextBox ID="txtsadd"
runat="server"></asp:TextBox></asp:TableCell>
            </asp:TableRow>
            <asp:TableRow runat="server">
            <asp:TableCell ID="TableCell2" runat="server">Student Mobile</asp:TableCell>
            <asp:TableCell ID="TableCell5" runat="server">
                        <asp:TextBox ID="txtsno" runat="server"></asp:TextBox></asp:TableCell>
            </asp:TableRow>
        </asp:Table>
        <br />
        <asp:Button ID="btnsub" runat="server" onclick="btnsub_Click" Text="Submit" />
         
        <asp:Button ID="btnup" runat="server" onclick="btnup_Click" Text="Update" />
          
        <asp:Button ID="btndel" runat="server" Text="Delete" onclick="btndel_Click" />
        <br />
        <br />
        <asp:Label ID="lbl" runat="server" Text="Label"></asp:Label>
        <br />
        <asp:GridView ID="gv" runat="server">
        </asp:GridView>
        </form>
</body>
</html>
```

➔ C# Code:

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


namespace WebApplication1_demo
{
    public partial class Crud : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                LoadRecord();
                clear();
            }
        }

        SqlConnection con = new SqlConnection("Data Source=AACHAL-MCA-
3RD\\SQLEXPRESS;Initial Catalog=hemant;Integrated Security=True");
```

```csharp
        public void clear()
        {
            txtsname.Text = "";
            txtsid.Text = "";
            txtsno.Text = "";
            txtsadd.Text = "";
            lbl.Text = "";
            txtsname.Focus();
        }

        protected void btnsub_Click(object sender, EventArgs e)
        {

            con.Open();
            SqlCommand cmd = new SqlCommand("insert into studinfo values('" +
Convert.ToInt64(txtsid.Text) + "','" + txtsname.Text + "','" + txtsadd.Text + "','" +
Convert.ToInt64(txtsno.Text) + "')", con);
            cmd.ExecuteNonQuery();
            con.Close();
            lbl.Text ="Inserted";
            LoadRecord();
            clear();
        }

        void LoadRecord()
        {
            SqlCommand cmd = new SqlCommand("select * from studinfo",con);
            SqlDataAdapter d = new SqlDataAdapter(cmd);
            DataSet ds = new DataSet();
            d.Fill(ds);
            gv.DataSource = ds;
            gv.DataBind();
        }

        protected void btnup_Click(object sender, EventArgs e)
        {
            con.Open();
            SqlCommand cmd = new SqlCommand("update studinfo set Sname = '" +
txtsname.Text + "', Sadd = '" + txtsadd.Text + "',Smob = '" +
Convert.ToInt64(txtsno.Text) + "' where Sid= '"+Convert.ToInt64(txtsid.Text)+"'",
con);
            cmd.ExecuteNonQuery();
            con.Close();
            lbl.Text = "Updated";
            LoadRecord();
            clear();
        }

        protected void btndel_Click(object sender, EventArgs e)
        {
            con.Open();
            SqlCommand cmd = new SqlCommand("delete from studinfo where Sid='" +
Convert.ToInt64(txtsid.Text) + "'", con);
            cmd.ExecuteNonQuery();
            con.Close();
            lbl.Text = "Delete";
            LoadRecord();
            clear();
        }
    }
}
```