

- 1) **Creation of Virtual Directory, Home directory, Home page, hosting of website**
- 2) **Demonstrate Page Life Cycle of ASP.NET. Use important page events for your demonstration.**
1. File-New Website
2. Take 1 Label and 1 Button
3. Write Following Code

```
using System;
using System.Configuration;
using System.Data;
using System.Linq;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Linq;

public partial class _Default : System.Web.UI.Page
{
    protected void Page_PreInit(object sender, EventArgs e)
    {
        //Work and It will assign the values to label.
        Label1.Text = Label1.Text + "<br/>" + "PreInit";
    }
    protected void Page_Init(object sender, EventArgs e)
    {
        //Work and It will assign the values to label.
        Label1.Text = Label1.Text + "<br/>" + "Init";
    }
    protected void Page_InitComplete(object sender, EventArgs e)
    {
        //Work and It will assign the values to label.
        Label1.Text = Label1.Text + "<br/>" + "InitComplete";
    }
    protected override void OnPreLoad(EventArgs e)
    {
        //Work and It will assign the values to label.
        //If the page is post back, then label control values will be
        loaded from view state.
        //E.g: If you string str = Label1.Text, then str will contain
        viewstate values.
        Label1.Text = Label1.Text + "<br/>" + "PreLoad";
    }
    protected void Page_Load(object sender, EventArgs e)
    {
        //Work and It will assign the values to label.
        Label1.Text = Label1.Text + "<br/>" + "Load";
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        //Work and It will assign the values to label.
        Label1.Text = Label1.Text + "<br/>" + "btnSubmit_Click";
    }
    protected void Page_LoadComplete(object sender, EventArgs e)
    {
        //Work and It will assign the values to label.
        Label1.Text = Label1.Text + "<br/>" + "LoadComplete";
    }
}
```

```

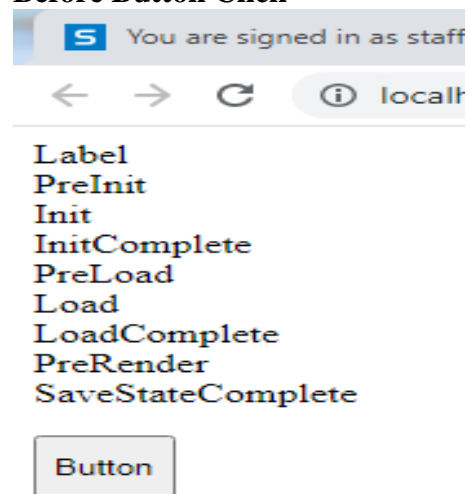
    }
    protected override void OnPreRender(EventArgs e)
    {
        //Work and It will assign the values to label.
        Label1.Text = Label1.Text + "<br/>" + "PreRender";
    }
    protected override void OnSaveStateComplete(EventArgs e)
    {
        //Work and It will assign the values to label.
        //But "SaveStateComplete" values will not be available during
        post back. i.e. View state.
        Label1.Text = Label1.Text + "<br/>" + "SaveStateComplete";
    }
    protected void Page_UnLoad(object sender, EventArgs e)
    {
        //Work and it will not effect label contrl, view stae and post
        back data.
        Label1.Text = Label1.Text + "<br/>" + "UnLoad";
    }
}

```

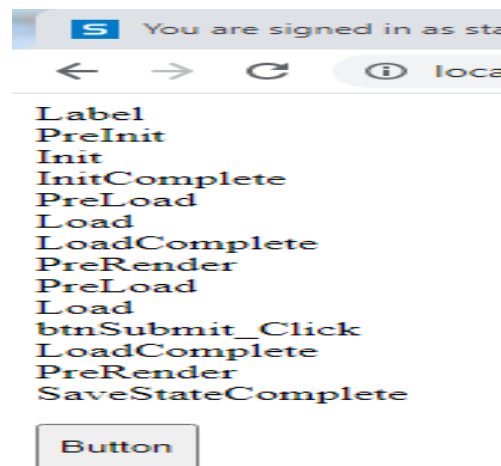
4. Run

OUTPUT:-

Before Button Click



After Button Click



3) Demonstrate concept of postback and viewstate using web form server controls of ASP.NET

1. File-New Website
2. Take 2 DropDownList2, 2nd having property `EnableViewState="false"`
3. Write Following Code

```
using System;
using System.Configuration;
using System.Data;
using System.Linq;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Linq;

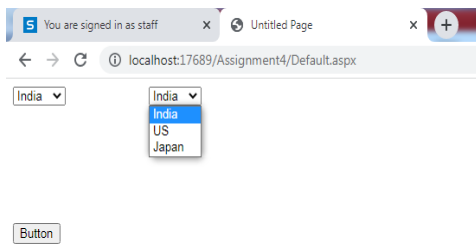
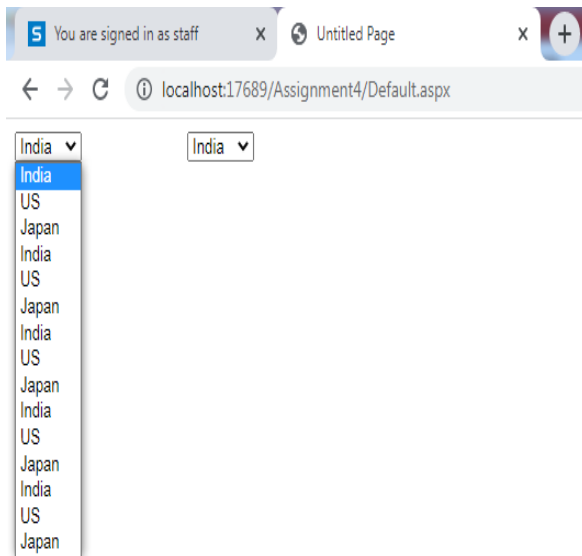
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        bind1();
        bind2();
    }
    public void bind1()
    {
        ListItem l1 = new ListItem("India");
        ListItem l2 = new ListItem("US");
        ListItem l3 = new ListItem("Japan");
        DropDownList1.Items.Add(l1);
        DropDownList1.Items.Add(l2);
        DropDownList1.Items.Add(l3);
    }

    public void bind2()
    {
        ListItem l1 = new ListItem("India");
        ListItem l2 = new ListItem("US");
        ListItem l3 = new ListItem("Japan");
        DropDownList2.Items.Add(l1);
        DropDownList2.Items.Add(l2);
        DropDownList2.Items.Add(l3);
    }

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

4. Run

OUTPUT:-



4) Demonstrate DropDownList box, CheckButtonList, RadioButtonList controls.

1. File-New Website
2. Write Following Code

```
using System;
using System.Configuration;
using System.Data;
using System.Linq;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Linq;

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label1.Text = DropDownList1.SelectedValue.ToString();

        Label2.Text = "Selected Item(s):<br /><br />";
        for (int i = 0; i < CheckBoxList2.Items.Count; i++)
        {

            if (CheckBoxList2.Items[i].Selected)
            {

                Label2.Text += CheckBoxList2.Items[i].Text + "<br />";

            }

        }

        Label3.Text = "Selected Item(s):<br /><br />";
        for (int i = 0; i < RadioButtonList1.Items.Count; i++)
        {

            if (RadioButtonList1.Items[i].Selected)
            {

                Label3.Text += RadioButtonList1.Items[i].Text + "<br

/>";

            }

        }

    }
}
```

3. Run

OUTPUT:-



localhost:23944/Assignment6/Default.aspx

Select Color

Blue ▼

Blue

Select Color

- ☒ Red
- ☒ Green
- ☐ Blue

Selected Item(s):

Red
Green

Select Color

- ☒ Red
- ☐ Green
- ☐ Blue

Selected Item(s):

Red

Button

5) Demonstrate Databinding using Hashtable, ArrayList, DataTable data sources.

1. Write Following Code in Default.aspx.cs

```
using System.Data;
using System.Data.SqlClient;
using System.Collections;
using System.Collections.Generic;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        SqlConnection con = new SqlConnection("Data
Source=.\SQLEXPRESS;AttachDbFilename=I:\\2021-22\\Subjects\\CA-305 (B)
Microsoft .Net Technologies\\CA-LAB-XII (B) Lab on Microsoft .Net
Technologies\\Assignment7\\App_Data\\Database.mdf;Integrated
Security=True;User Instance=True");
        DataTable ds = new DataTable();
        SqlDataAdapter sde = new SqlDataAdapter("select * from student",
con);
        sde.Fill(ds);
        GridView1.DataSource = ds;
        GridView1.DataBind();

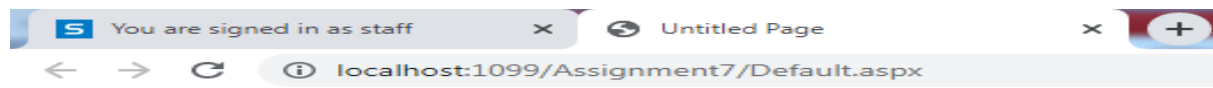
        ArrayList list = new ArrayList();
        list.Add("AAAA");
        list.Add("BBBB");
        list.Add("CCCC");
        GridView2.DataSource =list;
        GridView2.DataBind();

        Hashtable hashItems = new Hashtable();
        hashItems.Add("4", "GGGG");
        hashItems.Add("5", "HHHH");
        hashItems.Add("6", "IIII");
        hashItems.Add("7", "JJJJ");
        GridView3.DataSource = hashItems;
        GridView3.DataBind();
    }
}
```

2. For Hashtable Write Following Code in Default.aspx

```
<asp:GridView ID="GridView3"
runat="server" AutoGenerateColumns="false">
    <Columns>
        <asp:BoundField DataField="key" HeaderText="Roll No"
/>
        <asp:BoundField DataField="value" HeaderText="Name"
/>
    </Columns>
</asp:GridView>
```

OUTPUT:-



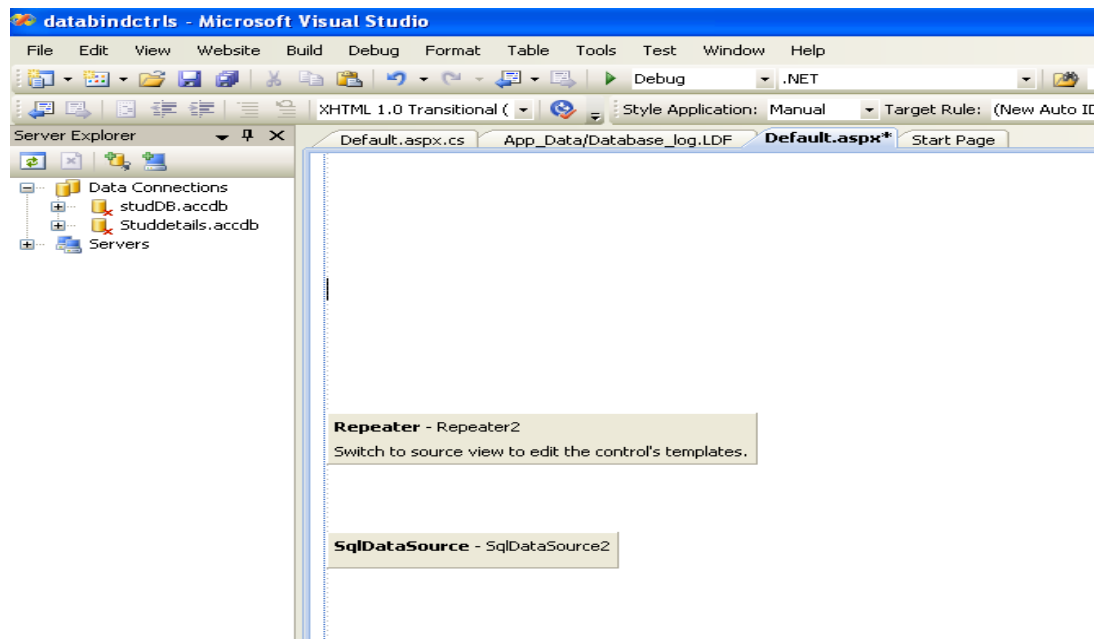
rno	name
1	a
2	b
3	c
4	d
5	e

Item
AAAA
BBBB
CCCC

Roll No	Name
4	GGGG
5	HHHH
6	IIII
7	JJJJ

6) Demonstrate Repeater control with the help of various templates.

1. Right Click on **App_Data** in **Solution Explorer**
2. Add New Item select **SQL Server Database** and give database name
3. In **Server Explorer** right click on **Tables**, select **Add New Table**
4. Right click on your table and select **Show Table Data** and insert records
5. Take **GridView** from **Data** click on **Choose Data Source, Database**, select your database/table/fields
6. Click on **Test Query** and **Finish**



7.

Add Following code in Source view

```
<table border =2>
<asp:Repeater ID="Repeater1" runat="server"
DataSourceID="SqlDataSource1">
<HeaderTemplate >
<tr ><td style ="background-color:Lime ;">ROLL NO</td>
<td style ="background-color:Lime ;">NAME</td></tr>
</HeaderTemplate>
<ItemTemplate >
<tr><td><%#Eval("rno") %></td>
<td><%#Eval("name") %></td></tr></ItemTemplate>
<AlternatingItemTemplate >
<tr><td style ="background-color :Gray ;"><%#Eval("rno") %></td>
<td style ="background-color :Gray ;"><%#Eval("name") %> </td></tr>
</AlternatingItemTemplate>
</asp:Repeater> </table>
```

8. Save , BUILT & RUN .

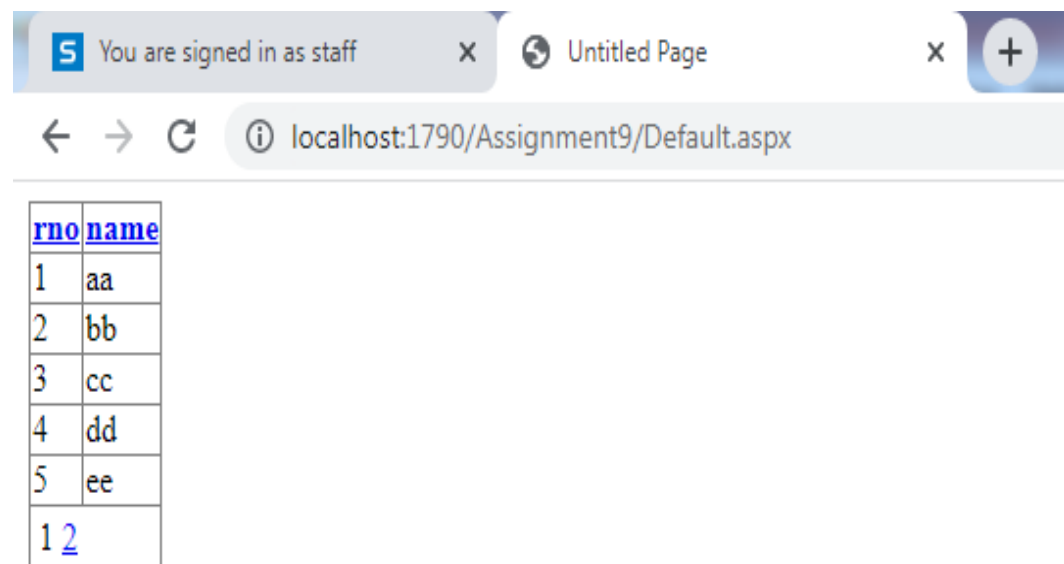
OUTPUT:-

ROLL NO	NAME
1	a
2	b
3	c
4	d
5	e

7) **Demonstrate paging, sorting, filtering of data in asp:DataGrid/DataGridView.**

1. Right Click on **App_Data** in **Solution Explorer**
2. Add New Item select **SQL Server Database** and give database name
3. In **Server Explorer** right click on **Tables**, select **Add New Table**
4. Right click on your table and select **Show Table Data** and insert records
5. Take **GridView** from **Data** click on **Choose Data Source, Database**, select your database/table/fields
6. Click on **Test Query** and **Finish**
7. Click on **GridView** and **Tick Enable Paging, Enable Sorting** and set **PageSize** property.
8. Save and Run

OUTPUT:-



The screenshot shows a web browser window with the address bar displaying 'localhost:1790/Assignment9/Default.aspx'. The browser has two tabs: 'You are signed in as staff' and 'Untitled Page'. The main content area displays a DataGrid with the following data:

<u>rno</u>	<u>name</u>
1	aa
2	bb
3	cc
4	dd
5	ee
1 2	

8) Write an ASP .net program that demonstrate use of HTML Controls

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

```
<!DOCTYPE html>
```

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

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

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

```
<style type="text/css">
```

```
body{
```

```
background-size:cover;
```

```
}
```

```
.auto-style10 {
```

```
text-align: center;
```

```
color: #000066;
```

```
font-size: xx-large;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body style="background-image:url('image/pic.jpg');">
```

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

```
<table align="center" class="auto-style1" border="1">
```

```
<tr>
```

```
<td class="auto-style10" colspan="2">Student Registration Form</td>
```

```
</tr>
```

```
<tr>
```

```
<td class="auto-style9">Student First Name</td>
```

```
<td>
```

```
<asp:TextBox ID="TextBox1" runat="server" Height="25px"
```

```
Width="195px"></asp:TextBox>
```

```
</td>
```

```
</tr>
```

```
<tr>
```

```
<td class="auto-style9">Student Last Name</td>
```

```
<td>
```

```
<asp:TextBox ID="TextBox2" runat="server" Height="24px"
```

```
Width="192px"></asp:TextBox>
```

```
</td>
```

```
</tr>
```

```
<tr>
```

```
<td class="auto-style9">UserName</td>
```

```
<td>
```

```
<asp:TextBox ID="TextBox3" runat="server" Height="27px"
```

```
Width="188px"></asp:TextBox>
```

```
</td>
```

```
</tr>
```

```
<tr>
```

```
<td class="auto-style9">Password</td>
```

```
<td>
```

```

        <asp:TextBox ID="TextBox4" runat="server" TextMode="Password" Height="25px"
Width="188px"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style9">Address</td>
    <td>
        <asp:TextBox ID="TextBox5" runat="server" TextMode="MultiLine"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style9">Mobile No</td>
    <td>
        <asp:TextBox ID="TextBox6" runat="server" Height="27px"
Width="183px"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style6">Gender</td>
    <td class="auto-style3">
        <asp:RadioButton ID="RadioButton1" runat="server" GroupName="a" Text="Male" Font-
Italic="True" Font-Size="Medium" style="font-size: medium" />
        <asp:RadioButton ID="RadioButton2" runat="server" GroupName="a" Text="Female"
Font-Italic="True" Font-Size="Medium" style="font-size: medium" />
    </td>
</tr>
<tr>
    <td class="auto-style7">Hobbies</td>
    <td class="auto-style8">
        <asp:CheckBoxList ID="CheckBoxList1" runat="server" RepeatDirection="Horizontal">
            <asp:ListItem>cricket</asp:ListItem>
            <asp:ListItem>dancing</asp:ListItem>
            <asp:ListItem>reading</asp:ListItem>
            <asp:ListItem>gaming</asp:ListItem>
            <asp:ListItem>football</asp:ListItem>
        </asp:CheckBoxList>
    </td>
</tr>
<tr>
    <td class="auto-style6">City</td>
    <td class="auto-style3">
        <asp:DropDownList ID="DropDownList1" runat="server" Height="25px" Width="111px">
            <asp:ListItem>Jalgaon</asp:ListItem>
            <asp:ListItem>pune</asp:ListItem>
            <asp:ListItem>nashik</asp:ListItem>
            <asp:ListItem>mumbai</asp:ListItem>
            <asp:ListItem>bangalore</asp:ListItem>
        </asp:DropDownList>
    </td>
</tr>
<tr>

```

```

        <td class="auto-style4" colspan="2">
            <asp:Button ID="Button1" runat="server" BackColor="#FFFFCC" BorderColor="#3333FF"
BorderStyle="Dotted" Font-Italic="True" Font-Overline="False" Font-Size="Large" Font-
Underline="True" ForeColor="Fuchsia" Height="33px" Text="Button" Width="111px"
OnClick="Button1_Click" />
        </td>
    </tr>
</table>
<p>
    <asp:Label ID="Label1" runat="server"></asp:Label>
</p>
</form>
</body>
</html>

```

WebForm.aspx.cs

```

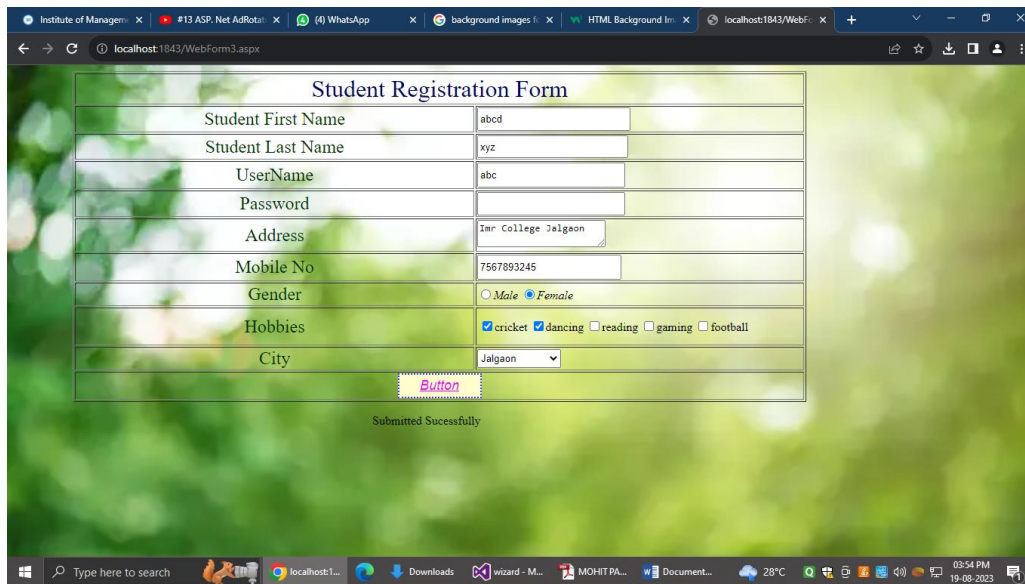
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

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

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            string uid = TextBox3.Text;
            string pass = TextBox4.Text;
            if(uid=="abc" && pass=="123")
            {
                Label1.Text = "Submitted Sucessfully";
            }
            else
            {
                Label1.Text = "Submitted not Sucessfully";
            }
        }
    }
}

```



9) **Write an ASP .net program that demonstrates use of web controls.**

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

```
<!DOCTYPE html>
```

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

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

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

```
<style type="text/css">
```

```
body{
    background-size:cover;
}
```

```
.auto-style10 {
    text-align: center;
    color: #000066;
    font-size: xx-large;
}
```

```
</style>
```

```
</head>
```

```
<body style="background-image:url('image/pic.jpg');">
```

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

```
<table align="center" class="auto-style1" border="0">
```

```
<tr>
```

```
<td class="auto-style10" colspan="2">Student Registration Form</td>
```

```
</tr>
```

```
<tr>
```

```
<td class="auto-style9">Student First Name</td>
```

```
<td>
```

```

        <asp:TextBox ID="TextBox1" runat="server" Height="25px"
Width="195px"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style9">Student Last Name</td>
    <td>
        <asp:TextBox ID="TextBox2" runat="server" Height="24px"
Width="192px"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style9">UserName</td>
    <td>
        <asp:TextBox ID="TextBox3" runat="server" Height="27px"
Width="188px"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style9">Password</td>
    <td>
        <asp:TextBox ID="TextBox4" runat="server" TextMode="Password" Height="25px"
Width="188px"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style9">Address</td>
    <td>
        <asp:TextBox ID="TextBox5" runat="server" TextMode="MultiLine"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style9">Mobile No</td>
    <td>
        <asp:TextBox ID="TextBox6" runat="server" Height="27px"
Width="183px"></asp:TextBox>
    </td>
</tr>
<tr>
    <td class="auto-style6">Gender</td>
    <td class="auto-style3">
        <asp:RadioButton ID="RadioButton1" runat="server" GroupName="a" Text="Male" Font-
Italic="True" Font-Size="Medium" style="font-size: medium" />
        <asp:RadioButton ID="RadioButton2" runat="server" GroupName="a" Text="Female"
Font-Italic="True" Font-Size="Medium" style="font-size: medium" />
    </td>
</tr>
<tr>
    <td class="auto-style7">Skills</td>
    <td class="auto-style8">
        <asp:CheckBoxList ID="CheckBoxList2" runat="server" RepeatDirection="Horizontal">

```



```

        <asp:ListItem>C#.Net</asp:ListItem>
        <asp:ListItem>Asp.Net</asp:ListItem>
        <asp:ListItem>java</asp:ListItem>
        <asp:ListItem>python</asp:ListItem>
        <asp:ListItem>Data Analytics</asp:ListItem>
    </asp:CheckBoxList>
</td>
</tr>
<tr>
    <td class="auto-style7">Course</td>
    <td class="auto-style8">
        <asp:DropDownList ID="DropDownList2" runat="server" Height="31px" Width="104px">
            <asp:ListItem>FYBCA</asp:ListItem>
            <asp:ListItem>SYBCA</asp:ListItem>
            <asp:ListItem>TYBCA</asp:ListItem>
        </asp:DropDownList>
    </td>
</tr>
<tr>
    <td class="auto-style7">Hobbies</td>
    <td class="auto-style8">
        <asp:CheckBoxList ID="CheckBoxList1" runat="server" RepeatDirection="Horizontal">
            <asp:ListItem>cricket</asp:ListItem>
            <asp:ListItem>dancing</asp:ListItem>
            <asp:ListItem>reading</asp:ListItem>
            <asp:ListItem>gaming</asp:ListItem>
            <asp:ListItem>football</asp:ListItem>
        </asp:CheckBoxList>
    </td>
</tr>
<tr>
    <td class="auto-style6">City</td>
    <td class="auto-style3">
        <asp:DropDownList ID="DropDownList1" runat="server" Height="25px" Width="111px">
            <asp:ListItem>Jalgaon</asp:ListItem>
            <asp:ListItem>pune</asp:ListItem>
            <asp:ListItem>nashik</asp:ListItem>
            <asp:ListItem>mumbai</asp:ListItem>
            <asp:ListItem>bangalore</asp:ListItem>
        </asp:DropDownList>
    </td>
</tr>
<tr>
    <td class="auto-style4" colspan="2">
        <asp:Button ID="Button1" runat="server" BackColor="#FFFFCC" BorderColor="#3333FF"
        BorderStyle="Dotted" Font-Italic="True" Font-Overline="False" Font-Size="Large" Font-
        Underline="True" ForeColor="Fuchsia" Height="33px" Text="Button" Width="111px"
        OnClick="Button1_Click" />
    </td>
</tr>
</table>

```

```
<p>
  <asp:Label ID="Label1" runat="server"></asp:Label>
</p>
</form>
</body>
</html>
```

WebForm.aspx.cs

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

namespace wizard
{
    public partial class WebForm3 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            string uid = TextBox3.Text;
            string pass = TextBox4.Text;
            if(uid=="abc" && pass=="123")
            {
                Label1.Text = "Submitted Sucessfully";
            }
            else
            {
                Label1.Text = "Submitted not Sucessfully";
            }
        }
    }
}
```

Institute of Management & Technology | #13 ASP, Net AdRotat... | (4) WhatsApp | background images f... | HTML Background Im... | localhost:1843/WebF... |

localhost:1843/WebForm3.aspx

Student Registration Form

Student First Name	<input type="text" value="abcd"/>
Student Last Name	<input type="text" value="xyz"/>
UserName	<input type="text" value="abc"/>
Password	<input type="password"/>
Address	<input type="text" value="Imr college jalgaon"/>
Mobile No	<input type="text" value="7567893245"/>
Gender	<input type="radio"/> Male <input checked="" type="radio"/> Female
Skills	<input type="checkbox"/> C#.Net <input checked="" type="checkbox"/> Asp.Net <input checked="" type="checkbox"/> java <input type="checkbox"/> python <input type="checkbox"/> Data Analytics
Course	<input type="text" value="TYBCA"/>
Hobbies	<input checked="" type="checkbox"/> cricket <input type="checkbox"/> dancing <input type="checkbox"/> reading <input checked="" type="checkbox"/> gaming <input type="checkbox"/> football
City	<input type="text" value="nashik"/>

[Button](#)

Submitted Sucessfully

Windows Taskbar: Type here to search | Downloads | wizard (R... | MOHIT P... | practical ... | 28°C | 04:06 PM 19-08-2023

10) Write an ASP .net program that demonstrates use of Validations Controls.

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        body{
            background-size:cover;
        }
    </style>
</head>
<body style="background-image:url('image/pic.jpg');">
    <form id="form1" runat="server">
        <table class="auto-style1" align="center">
            <tr>
                <td colspan="2" style="text-align: center" class="auto-style4">Registration Form</td>
            </tr>
            <tr>
                <td class="auto-style3">First name</td>
                <td>
                    <asp:TextBox ID="TextBox1" runat="server" Height="30px"
Width="157px"></asp:TextBox>
                    <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
ControlToValidate="TextBox1" ErrorMessage="*" ForeColor="Red"></asp:RequiredFieldValidator>
                </td>
            </tr>
            <tr>
                <td class="auto-style3">last name</td>
                <td>
                    <asp:TextBox ID="TextBox2" runat="server" Height="26px"
Width="156px"></asp:TextBox>
                    <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
ControlToValidate="TextBox2" ErrorMessage="*" ForeColor="Red"></asp:RequiredFieldValidator>
                </td>
            </tr>
            <tr>
                <td class="auto-style3">address</td>
                <td>
                    <asp:TextBox ID="TextBox3" runat="server" Height="29px"
Width="156px"></asp:TextBox>
                    <asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"
ControlToValidate="TextBox3" ErrorMessage="*" ForeColor="Red"></asp:RequiredFieldValidator>
                </td>
            </tr>
        </table>
    </form>
</body>
</html>
```

```

<tr>
    <td class="auto-style3">Mobile NO</td>
    <td>
        <asp:TextBox ID="TextBox4" runat="server" Height="30px"
Width="156px"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator4" runat="server"
ControlToValidate="TextBox4" ErrorMessage="*" ForeColor="Red"></asp:RequiredFieldValidator>
        &nbsp;<asp:RegularExpressionValidator ID="RegularExpressionValidator2" runat="server"
ControlToValidate="TextBox4" ErrorMessage="Please enter only 10 digit Mobile Number"
ValidationExpression="\d{10}" ForeColor="Red"></asp:RegularExpressionValidator>
    </td>
</tr>
<tr>
    <td class="auto-style3">email id</td>
    <td>
        <asp:TextBox ID="TextBox5" runat="server" Height="32px"
Width="159px"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server"
ControlToValidate="TextBox5" ErrorMessage="please enter email id"
ForeColor="#FF3300"></asp:RequiredFieldValidator>
        &nbsp;<asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"
ControlToValidate="TextBox5" ErrorMessage="Please enter valid email id"
ValidationExpression="\w+([-+.']\w+)*@\w+([-.\w+)*\.\w+([-.\w+)*"
ForeColor="Red"></asp:RegularExpressionValidator>
    </td>
</tr>
<tr>
    <td class="auto-style3">Password</td>
    <td>
        <asp:TextBox ID="TextBox6" runat="server" Height="33px" TextMode="Password"
Width="154px"></asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator6" runat="server"
ControlToValidate="TextBox6" ErrorMessage="*" ForeColor="Red"></asp:RequiredFieldValidator>
    </td>
</tr>
<tr>
    <td class="auto-style3">confirm password</td>
    <td>
        <asp:TextBox ID="TextBox8" runat="server" Height="27px" TextMode="Password"
Width="156px"></asp:TextBox>
        <asp:CompareValidator ID="CompareValidator1" runat="server"
ControlToCompare="TextBox6" ControlToValidate="TextBox8" ErrorMessage="Password is not
match" ForeColor="Red"></asp:CompareValidator>
    </td>
</tr>
<tr>
    <td class="auto-style3">age</td>
    <td>
        <asp:TextBox ID="TextBox7" runat="server" Height="30px"
Width="159px"></asp:TextBox>

```

```

        <asp:RequiredFieldValidator ID="RequiredFieldValidator7" runat="server"
ControlToValidate="TextBox7" ErrorMessage="*" ForeColor="Red"></asp:RequiredFieldValidator>
        <asp:RangeValidator ID="RangeValidator1" runat="server" ControlToValidate="TextBox7"
ErrorMessage="Please enter valid age range " MaximumValue="25" MinimumValue="18"
ForeColor="#FF3300"></asp:RangeValidator>
        &nbsp;</td>
    </tr>
    <tr>
        <td class="auto-style2" colspan="2">
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="SUBMIT"
Height="30px" Width="86px" Font-Bold="True" Font-Italic="True" Font-Overline="False" Font-
Size="Medium" ForeColor="#FF0066" />
            <br />
        </td>
    </tr>
</table>
</div>
</form>
</body>
</html>

```

The screenshot shows a web browser window with the address bar displaying 'localhost:1955/WebForm1.aspx'. The page content is a registration form titled 'Registration Form' in red text. The form is set against a background of green foliage. It contains several input fields with the following values and associated error messages:

- First name:** abcd
- last name:** xyz
- address:** jalgaon
- Mobile NO:** 78989. Error message: 'Please enter only 10 digit Mobile Number' (in red).
- email id:** juuyh mj. Error message: 'Please enter valid email id' (in red).
- Password:** ...
- confirm password:** Error message: 'Password is not match' (in red).
- age:** 14. Error message: 'Please enter valid age range' (in red).

At the bottom of the form is a pink button labeled 'SUBMIT'. In the bottom right corner of the page, there is a 'Activate Windows' watermark with the text 'Go to Settings to activate Windows.' The Windows taskbar at the bottom shows the search bar, several open applications (including 'asp.net practical' and 'validation (Run...'), and the system clock indicating 04:36 PM on 30-08-2023.

Photo Gallery X Tu Banja Gali Benaras Ki | Asees X imr college jalgaon - Google Se... localhost:1955/WebForm1.aspx X

localhost:1955/WebForm1.aspx

Registration Form

First name	<input type="text" value="abcd"/>
last name	<input type="text" value="xyz"/>
address	<input type="text" value="jalgaon"/>
Mobile NO	<input type="text" value="7898966868"/>
email id	<input type="text" value="abc@gmail.com"/>
Password	<input type="password" value="..."/>
confirm password	<input type="password" value="..."/>
age	<input type="text" value="18"/>

[SUBMIT](#)

Activate Windows
Go to Settings to activate Windows.

Type here to search

localhost:1955/We... validation (Runnin... Document1 - Word... 32°C 04:39 PM 30-08-2023

11) Write an ASP .net program Demonstrate use of Master Pages.

```
<%@ Master Language="C#" AutoEventWireup="true" CodeFile="MasterPage.master.cs"
Inherits="MasterPage" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <asp:ContentPlaceHolder id="head" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <table align="center" class="auto-style1">
            <tr>
                <td class="auto-style9">
                    <asp:Image ID="Image1" runat="server" Height="146px"
ImageUrl="~/image/imr_logo.jpg" Width="152px" />
                </td>
            <tr>
                <td class="auto-style11" colspan="2">
                    <asp:Menu ID="Menu1" runat="server" BackColor="#FFFBD6"
DynamicHorizontalOffset="2" Font-Names="Verdana" Font-Size="0.8em" ForeColor="#990000"
Orientation="Horizontal" StaticSubMenuIndent="10px" style="font-size: xx-large; text-decoration:
underline; font-style: italic">
                        <DynamicHoverStyle BackColor="#990000" ForeColor="White" />
                        <DynamicMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
                        <DynamicMenuStyle BackColor="#FFFBD6" />
                        <DynamicSelectedItemStyle BackColor="#FFCC66" />
                        <Items>
                            <asp:MenuItem Text="Home" Value="Home"></asp:MenuItem>
                            <asp:MenuItem Text="Courses" Value="Courses">
                                <asp:MenuItem NavigateUrl="~/BCA.aspx" Text="BCA"
Value="BCA"></asp:MenuItem>
                                <asp:MenuItem NavigateUrl="~/MCA.aspx" Text="MCA"
Value="MCA"></asp:MenuItem>
                                </asp:MenuItem>
                                <asp:MenuItem NavigateUrl="~/about.aspx" Text="About"
Value="About"></asp:MenuItem>
                                <asp:MenuItem NavigateUrl="~/syllabus.aspx" Text="Syllabus"
Value="Syllabus"></asp:MenuItem>
                                <asp:MenuItem NavigateUrl="~/gallery.aspx" Text="Gallery"
Value="Gallery"></asp:MenuItem>
                                <asp:MenuItem NavigateUrl="~/news.aspx" Text="News"
Value="News"></asp:MenuItem>
                            </Items>
                        <StaticHoverStyle BackColor="#990000" ForeColor="White" />
                        <StaticMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
                    </asp:Menu>
                </td>
            </tr>
        </table>
    </div>
    </form>
</body>
</html>
```



```

        <StaticSelectedStyle BackColor="#FFCC66" />
    </asp:Menu>
</td>
</tr>
<tr>
    <td class="auto-style7">
        <asp:TreeView ID="TreeView1" runat="server" Height="171px" ImageSet="News"
NodeIndent="10" Width="152px">
            <HoverNodeStyle Font-Underline="True" />
            <Nodes>
                <asp:TreeNode Text="Course" Value="Course">
                    <asp:TreeNode NavigateUrl="~/BCA.aspx" Text="BCA"
Value="BCA"></asp:TreeNode>
                    <asp:TreeNode NavigateUrl="~/MCA.aspx" Text="MCA"
Value="MCA"></asp:TreeNode>
                    </asp:TreeNode>
                    <asp:TreeNode NavigateUrl="~/contact.aspx" Text="Contact"
Value="Contact"></asp:TreeNode>
                </Nodes>
                <NodeStyle Font-Names="Arial" Font-Size="10pt" ForeColor="Black"
HorizontalPadding="5px" NodeSpacing="0px" VerticalPadding="0px" />
                <ParentNodeStyle Font-Bold="False" />
                <SelectedNodeStyle Font-Underline="True" HorizontalPadding="0px"
VerticalPadding="0px" />
            </asp:TreeView>
        </td>
        <td class="auto-style8">
            <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
                </asp:ContentPlaceHolder>
            </td>
        </tr>
    </table>
</div>
</form>
</body>
</html>

```

Home.aspx page

```

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master"
AutoEventWireup="true" CodeFile="home.aspx.cs" Inherits="home" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
    <p style="height: 294px; width: 772px">
        <asp:Image ID="Image2" runat="server" Height="292px" ImageUrl="~/image/IMRJ.JPG"
Width="854px" />
    </p>
</asp:Content>

```

BCA.aspx Page

```

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master"
AutoEventWireup="true" CodeFile="BCA.aspx.cs" Inherits="BCA" %>

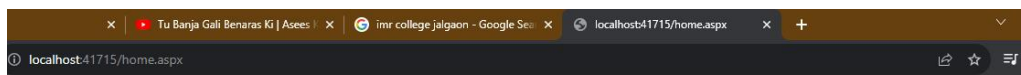
```


News.aspx page

```
<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master"
AutoEventWireup="true" CodeFile="news.aspx.cs" Inherits="news" %>
```

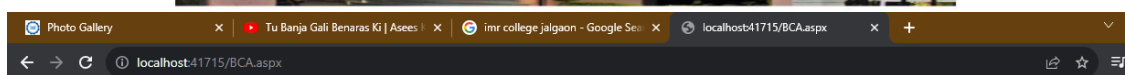
```
<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">
    <p>
        ALL NEWS PAPER AVAILABLE IN OUR INSTITUTE</p>
</asp:Content>
```

Output-



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- Course
- BCA
- MCA
- Contact



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BCA ERP FORM

FIRST NAME

LAST NAME

USERNAME

PASSWORD



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THIS IS GALLERY PAGE



12) Write an ASP .net page that used the connection object to connect the database and display information using datagrid Controls.

WebForm1.aspx page

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

<!DOCTYPE html>

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

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

<title></title>

<style type="text/css">

```
.auto-style1 {
```

font-size: x-large;

}

```
body{
```

background-image:url('image/abc.jpg');

```
background-size:cover;
```

}

```
.auto-style2 {
```

text-decoration: underline;

```
color: #FFFF99;
```

}

</style>

</head>

<body>

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

<div style="text-align: center">


```
<span class="auto-style1"><span class="auto-style2"><strong>Personal Information  
Form</strong></span><br />
```


Name

```
<asp:TextBox ID="TextBox1" runat="server" Height="20px" Width="192px"></asp:TextBox>
```


Mobile No

```
<asp:TextBox ID="TextBox2" runat="server" Height="22px" Width="155px"></asp:TextBox>
```


<span class="auto-

``

```
<asp:TextBox ID="TextBox3" runat="server" Height="20px" Width="149px"></asp:TextBox>
```



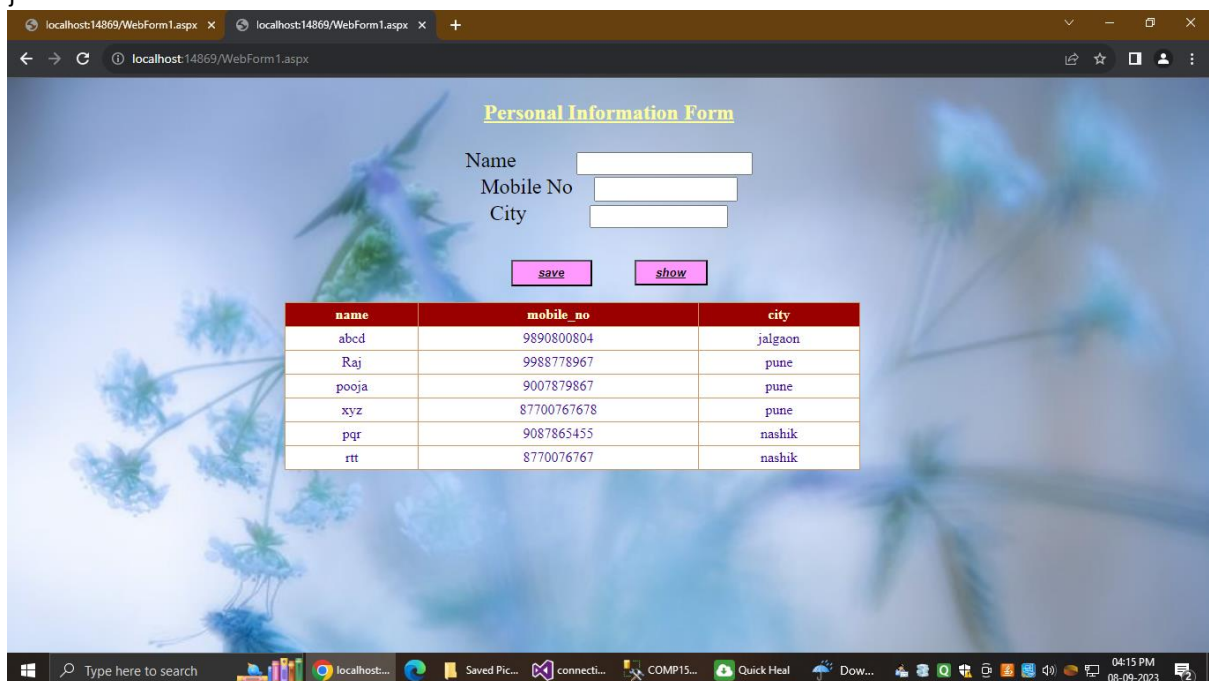
```

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        con = new SqlConnection(str); con.Open();
        string q = "insert into info values('" + TextBox1.Text + "','" + TextBox2.Text + "','" +
        TextBox3.Text + "')";
        SqlCommand cmd = new SqlCommand(q, con);
        cmd.ExecuteNonQuery();
        TextBox1.Text = " ";
        TextBox2.Text = " ";
        TextBox3.Text = " ";
        // TextBox1.Text = "ok";
        con.Close();
    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        con = new SqlConnection(str);
        string q2 = "select * from info";
        SqlDataAdapter da = new SqlDataAdapter(q2, con);
        DataSet ds = new DataSet();
        da.Fill(ds);
        GridView1.DataSource = ds;
        GridView1.DataBind();
    }
}

```



13) Demonstrate website navigation controls (sitemap path, treeview, menu) using SiteMap file.

Demo.aspx Web Form i.e Home Page

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

<!DOCTYPE html>

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

        <br />
        <br />
        <asp:SiteMapPath ID="SiteMapPath1" runat="server">
        </asp:SiteMapPath>
        <br />
        <asp:Menu ID="Menu1" runat="server" BackColor="#FFFBD6"
DynamicHorizontalOffset="2" Font-Names="Verdana" Font-Size="0.8em"
ForeColor="#990000" Orientation="Horizontal" StaticSubMenuIndent="10px">
            <DynamicHoverStyle BackColor="#990000" ForeColor="White" />
            <DynamicMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
            <DynamicMenuStyle BackColor="#FFFBD6" />
            <DynamicSelectedStyle BackColor="#FFCC66" />
            <Items>
                <asp:MenuItem NavigateUrl="~/demo.aspx" Text="Home"
Value="Home"></asp:MenuItem>
                <asp:MenuItem NavigateUrl="~/about.aspx" Text="About Us"
Value="About Us"></asp:MenuItem>
                <asp:MenuItem NavigateUrl="~/contact.aspx" Text="Contact US"
Value="Contact US"></asp:MenuItem>
            </Items>
            <StaticHoverStyle BackColor="#990000" ForeColor="White" />
            <StaticMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
            <StaticSelectedStyle BackColor="#FFCC66" />
        </asp:Menu>
        <br />
        <br />
        <asp:TreeView ID="TreeView1" runat="server" ImageSet="Simple">
            <HoverNodeStyle Font-Underline="True" ForeColor="#5555DD" />
            <Nodes>

                <asp:TreeNode NavigateUrl="~/fybca.aspx" Text="FYBCA"
Value="FYBCA"></asp:TreeNode>
                <asp:TreeNode NavigateUrl="~/tybca.aspx" Text="TYBCA"
Value="TYBCA"></asp:TreeNode>
            </Nodes>
        </asp:TreeView>
    </form>
</body>
</html>
```



```

                <asp:TreeNode NavigateUrl="~/contact.aspx" Text="Contact"
Value="Contact"></asp:TreeNode>
                <asp:TreeNode NavigateUrl="~/about.aspx" Text="About"
Value="About"></asp:TreeNode>
            </Nodes>
            <NodeStyle Font-Names="Tahoma" Font-Size="10pt" ForeColor="Black"
HorizontalPadding="0px" NodeSpacing="0px" VerticalPadding="0px" />
            <ParentNodeStyle Font-Bold="False" />
            <SelectedNodeStyle Font-Underline="True" ForeColor="#5555DD"
HorizontalPadding="0px" VerticalPadding="0px" />
        </asp:TreeView>
    </form>
</body>
</html>

```

about.aspx web form page

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="about.aspx.cs"
Inherits="sitemappath.program" %>

```

```

<!DOCTYPE html>

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

```

Contact.aspx web form page

```

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

```

```

<!DOCTYPE html>

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

```

fybca.aspx web form page

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="fybca.aspx.cs"
Inherits="sitemappath.php" %>
```

```
<!DOCTYPE html>

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

tybca.aspx web form page

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="tybca.aspx.cs"
Inherits="sitemappath.asp" %>
```

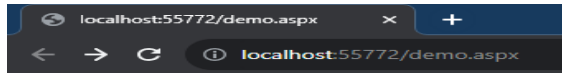
```
<!DOCTYPE html>

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

SiteMapPath File Page

```
<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
    <siteMapNode url="demo.aspx" title="Home page" description="">
        <siteMapNode url="fybca.aspx" title="First year BCA" description="" >
            <siteMapNode url="tybca.aspx" title="Third Year BCA" description="" />
        </siteMapNode>
        <siteMapNode url="about.aspx" title="About" description="" />
        <siteMapNode url="contact.aspx" title="contact us" description="" />
    </siteMapNode>
</siteMap>
```

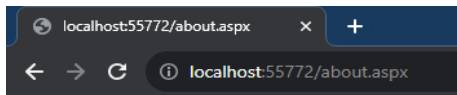
Output:-



Home page

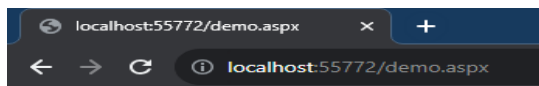
[Home](#) [About Us](#) [Contact US](#)

- [FYBCA](#)
- [TYBCA](#)
- [Contact](#)
- [About](#)



About

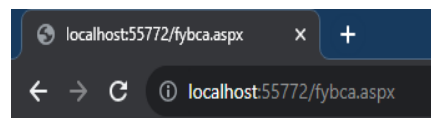
[Home page](#) > About



Home page

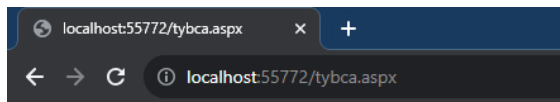
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- [FYBCA](#)
- [TYBCA](#)
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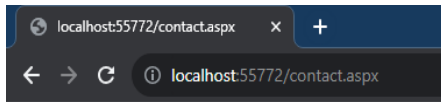
FYBCA

[Home page](#) > First year BCA



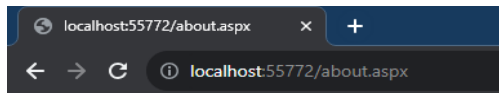
TYBCA

[Home page](#) > [First year BCA](#) > Third Year BCA



contact

[Home page](#) > contact us



About

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14) Write VB.Net/C# console applications to demonstrate: OO concepts: polymorphism, encapsulation, inheritance, interface inheritance, abstract classes/methods, overloading, overriding, collection classes, properties

1. File-New Project-Console Application
2. Write Following Code

```
using System;
using System.Collections;

//Function Overloading
/*class Program
{
    public void add(int a, int b)
    {
        Console.WriteLine(a + b);
    }
    public void add(float x, float y)
    {
        Console.WriteLine(x + y);
    }
    public void add(string s1, string s2)
    {
        Console.WriteLine(s1 + s2);
    }
    static void Main(string[] args)
    {
        Program obj = new Program();
        obj.add(10, 20);
    }
}
```

```

        obj.add(10.5f, 20.5f);
        obj.add("pranaya", "kumar");
        Console.WriteLine("Press any key to exist.");
        Console.ReadKey();
    }
}*/
//Function Overriding
/*class Class1
{
    public virtual void show()
    {
        Console.WriteLine("Super class show method");
    }
}
class Class2 : Class1
{
    public override void show()
    {
        Console.WriteLine("Sub class override show method");
    }
}
class Program
{
    static void Main(string[] args)
    {
        Class2 obj = new Class2();
        obj.show();
        Console.ReadKey();
    }
}*/
//Function Hiding
/*class Class1
{
    public void display()
    {
        Console.WriteLine("Super class display method");
    }
}
class Class2 : Class1
{
    public new void display()
    {
        Console.WriteLine("Sub class display method");
    }
}
class Program
{
    static void Main(string[] args)
    {
        Class2 obj = new Class2();
        obj.display();
        Console.ReadKey();
    }
}*/
//Encapsulation
/*public class Bank
{
    //hiding class data by declaring the variable as private
    private double balance;
    //creating public setter and getter methods
    public double getBalance()

```

```

        {
            //add validation logic if needed
            return balance;
        }
        public void setBalance(double balance)
        {
            // add validation logic to check whether data is correct or
not            this.balance = balance;
        }
    }
    class BankUser
    {
        public static void Main()
        {
            Bank SBI = new Bank();
            SBI.setBalance(500);
            Console.WriteLine(SBI.getBalance());
            Console.WriteLine("Press any key to exist.");
            Console.ReadKey();
        }
    }
    /*
    //inheritance
    */
    /*class Branch
    {
        int BranchCode;
        string BranchName, BranchAddress;
        public void GetBranchData()
        {
            Console.WriteLine("ENTER BRANCH DETAILS:");
            Console.WriteLine("ENTER BRANCH CODE");
            BranchCode = int.Parse(Console.ReadLine());
            Console.WriteLine("ENTER BRANCH NAME");
            BranchName = Console.ReadLine();
            Console.WriteLine("ENTER BRANCH ADDRESS");
            BranchAddress = Console.ReadLine();
        }
        public void DisplayBranchData()
        {
            Console.WriteLine("BRANCH CODE IS : " + BranchCode);
            Console.WriteLine("BRANCH NAME IS : " + BranchName);
            Console.WriteLine("BRANCH ADDRESS IS : " + BranchAddress);
        }
    }
    class Employee : Branch
    {
        int EmployeeId, EmployeeAge;
        string EmployeeName, EmployeeAddress;
        public void GetEmployeeData()
        {
            Console.WriteLine("ENTER EMPLOYEE DETAILS:");
            Console.WriteLine("ENTER EMPLOYEE ID");
            EmployeeId = int.Parse(Console.ReadLine());
            Console.WriteLine("ENTER EMPLOYEE AGE");
            EmployeeAge = int.Parse(Console.ReadLine());
            Console.WriteLine("ENTER EMPLOYEE NAME");
            EmployeeName = Console.ReadLine();
            Console.WriteLine("ENTER EMPLOYEE ADDRESS");
            EmployeeAddress = Console.ReadLine();
        }
        public void DisplayEmployeeData()
    }
    */

```

```

        {
            Console.WriteLine("EMPLOYEE ID IS : " + EmployeeId);
            Console.WriteLine("EMPLOYEE NAME IS : " + EmployeeName);
            Console.WriteLine("EMPLOYEE ADDRESS IS : " +
EmployeeAddress);
            Console.WriteLine("EMPLOYEE AGE IS : " + EmployeeAge);
        }
    }
}
class Program
{
    static void Main(string[] args)
    {
        Employee obj1 = new Employee();
        obj1.GetBranchData();
        obj1.GetEmployeeData();
        obj1.DisplayBranchData();
        obj1.DisplayEmployeeData();
        Console.WriteLine("Press any key to exist.");
        Console.ReadKey();
    }
}
/*
//interface inheritance
/*public interface A
{
    void method1();
    void method2();
}
interface B : A
{
    void method3();
}
class MyClass : B
{
    public void method1()
    {
        Console.WriteLine("implement method1");
    }
    public void method2()
    {
        Console.WriteLine("implement method2");
    }
    public void method3()
    {
        Console.WriteLine("implement method3");
    }
}
}
class Program
{
    static void Main(string[] args)
    {
        MyClass obj = new MyClass();
        obj.method1();
        obj.method2();
        obj.method3();
        Console.WriteLine("Press any key to exist.");
        Console.ReadKey();
    }
}
/*
//Abstract classes/methods
/*public abstract class MyClass
{

```

```

        public abstract void calculate(double x);
        public void show()
        {
            Console.WriteLine("Show");
        }
    }
    class Sub1 : MyClass
    {
        public override void calculate(double x)
        {
            Console.WriteLine("SQUARE ROOT IS " + Math.Sqrt(x));
        }
    }
    class Test
    {
        static void Main(string[] args)
        {
            Sub1 obj1 = new Sub1();
            obj1.calculate(9);
            obj1.show();
            Console.ReadKey();
        }
    }
}*/
//Collection Classes Stack, Queue, LinkedList, SortedList, ArrayList,
//HashTable, etc.
/*class Program
{
    static void Main(string[] args)
    {
        //Createing ArrayList collection using default constructor
        ArrayList al = new ArrayList();
        Console.WriteLine("Initial Capacity: " + al.Capacity);
        al.Add(10);
        Console.WriteLine("Capacity after adding first item: " +
al.Capacity);
        al.Add("hello");
        al.Add(true);
        al.Add(3.14f);
        Console.WriteLine("Capacity after adding fourth item: " +
al.Capacity);
        al.Add('A');
        Console.WriteLine("Capacity after adding 5th element: " +
al.Capacity);
        //Printing the ArrayList elements using for loop
        for (int i = 0; i < al.Count; i++)
        {
            Console.Write(al[i] + " ");
        }
        Console.WriteLine();
        //Removing the values from the middle of the array list
        //here we are removing by value
        al.Remove(true);
        //You can also remove element by using index position
        // al.RemoveAt(2);
        //Printing the ArrayList elements using foreach loop after
        // removing an element from the collection
        foreach (object obj in al)
        {
            Console.Write(obj + " ");
        }
        Console.WriteLine();
    }
}

```



```

        //inserting values into the middle of the array list collection
        al.Insert(2, false);
        // Printing the values of the collection using foreach loop
after
        // inserting an element into the middle of the collection
        foreach (object obj in al)
        {
            Console.Write(obj + " ");
        }
        Console.WriteLine();
        // creating new ArrayList collection by passing the old
        // array list as parameter
        ArrayList coll = new ArrayList(al);
        Console.WriteLine("Initial capacity of new array list
collection:" + coll.Capacity);
        // Printing the values of the new array list collection using
foreach loop
        foreach (object obj in coll)
        {
            Console.Write(obj + " ");
        }
        Console.ReadKey();
    }
}*/
//Properties
public class Example
{
    private int _empid, _eage;
    private string _ename, _eaddress;
    public int empid
    {
        set
        {
            _empid = value;
        }
        get
        {
            return _empid;
        }
    }
    public int eage
    {
        set
        {
            _eage = value;
        }
        get
        {
            return _eage;
        }
    }
    public string ename
    {
        set
        {
            _ename = value;
        }
        get
        {
            return _ename;
        }
    }
}

```

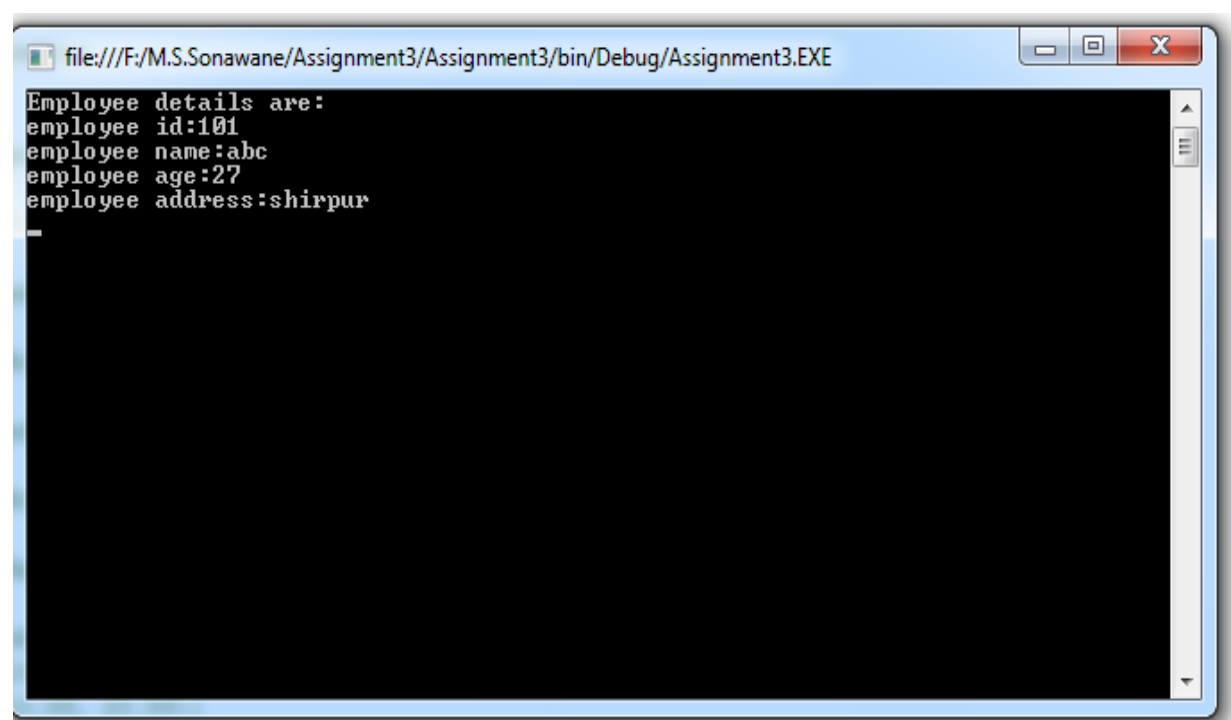
```

    }
    public string eaddress
    {
        set
        {
            _eaddress = value;
        }
        get
        {
            return _eaddress;
        }
    }
}
class Program
{
    static void Main(string[] args)
    {
        Example obj1 = new Example();
        obj1.empid = 101;
        obj1.ename = "abc";
        obj1.eage = 27;
        obj1.eaddress = "shirpur";
        Console.WriteLine("Employee details are:");
        Console.WriteLine("employee id:" + obj1.empid);
        Console.WriteLine("employee name:" + obj1.ename);
        Console.WriteLine("employee age:" + obj1.eage);
        Console.WriteLine("employee address:" + obj1.eaddress);
        Console.ReadKey();
    }
}

```

3. Run

OUTPUT:-



15) Themes/Skins

1.Start->Programs->Visual studio 2008

2. Create new web site.

3. Add one Theme Folder in your Website.

i) Right Click > Add New ASP.NET Folder >Choose Theme folder.

4. Add one Skin File in your Website.

ii)Right Click > Add New Item > Skin file.

5. Write a following code in Skin File.

```
<asp:Label runat="server" ForeColor="orange"></asp:Label>
```

```
<asp:TextBox runat="server" BackColor="orange"  
ForeColor="black"  
BorderColor="Red" BorderStyle="Solid"></asp:TextBox>
```

```
<asp:RadioButton runat="server" BackColor="orange"  
ForeColor="black" BorderColor="Red"  
BorderStyle="Solid"></asp:RadioButton>
```

```
<asp:Button runat="server" BackColor="orange"
ForeColor="black"
BorderColor="Red" BorderStyle="Solid"></asp:Button>
```

```
<asp:TextBox runat="server" skinID="s1" BackColor="Red"
ForeColor="black" BorderColor="Red"
BorderStyle="Solid"></asp:TextBox>
```

6. Apply this skin file in thoruh out the website then **Goto web.config** file and set the Page attribute value give the theme name.

```
<pages theme="Theme1">
```

7. Apply this skin file on page level controls then Goto Source Code set the Page attribute value give the theme name.

```
<%@ Page Theme="Theme1" Language="C#" AutoEventWireup="true"
CodeFile="Default.aspx.cs" Inherits="_Default" %>
```

8. Apply this skin on Particular Control level then Goto Source Code set the skinID.

```
<asp:TextBox ID="TextBox3" runat="server"
SkinID="s1"></asp:TextBox>
```

OUTPUT:-

