**Practical 1**

**Aim:Basic C# Programs using Object Oriented Programming**

1. **Factorial**

**Source Code:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Factorial

{

classProgram

{

staticvoid Main(string[] args)

{

**int** i,fact=1,number;

        Console.Write("Enter any Number: ");

        number= **int**.Parse(Console.ReadLine());

**for**(i=1;i<=number;i++){

        fact=fact\*i;

        }

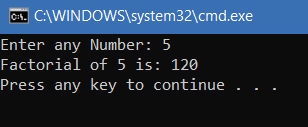
        Console.Write("Factorial of " +number+" is: "+fact);

}

}

}

**Output:**



1. **Prime Number**

**Source Code:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Fibbonacci

{

classProgram

{

staticvoid Main(string[] args)

{

int n, i, m = 0, flag = 0;

Console.Write("Enter the Number to check Prime: ");

n = int.Parse(Console.ReadLine());

m = n / 2;

for (i = 2; i <= m; i++)

{

if (n % i == 0)

{

Console.Write("Number is not Prime.");

flag = 1;

break;

}

}

if (flag == 0)

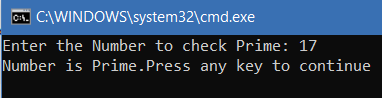
Console.Write("Number is Prime.");

}

}

}

**Output:**



1. **Palindrome Number**

**Source Code:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Fibbonacci

{

Class Program

{

Static void Main(string[] args)

{

int n, r, sum = 0, temp;

Console.Write("Enter the Number: ");

n = int.Parse(Console.ReadLine());

temp = n;

while (n > 0)

{

r = n % 10;

sum = (sum \* 10) + r;

n = n / 10;

}

if (temp == sum)

Console.Write("Number is Palindrome.");

else

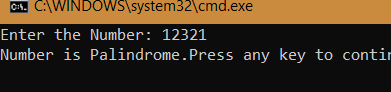
Console.Write("Number is not Palindrome");

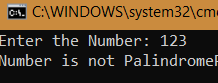
}

}

}

**Output:**





1. **Reverse Number**

**Source Code:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Fibbonacci

{

classProgram

{

Static void Main(string[] args)

{

int n, reverse = 0, rem;

Console.Write("Enter a number: ");

n = int.Parse(Console.ReadLine());

while (n != 0)

{

rem = n % 10;

reverse = reverse \* 10 + rem;

n /= 10;

}

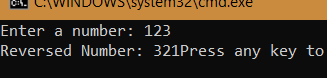
Console.Write("Reversed Number: " + reverse);

}

}

}

**Output:**



1. **Fibonacci Series**

**Source Code:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Fibonacci

{

classProgram

{

Static void Main(string[] args)

{

int n1 = 0, n2 = 1, n3, i, number;

Console.Write("Enter the number of elements: ");

number = int.Parse(Console.ReadLine());

Console.Write(n1 + " " + n2 + " "); //printing 0 and 1

for (i = 2; i < number; ++i) //loop starts from 2 because 0 and 1 are already printed

{

n3 = n1 + n2;

Console.Write(n3 + " ");

n1 = n2;

n2 = n3;

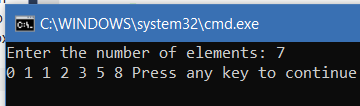
}

}

}

}

**Output:**



1. **Convert Number To Characters**

**Source Code:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Fibbonacci

{

classProgram

{

staticvoid Main(string[] args)

{

int n, sum = 0, r;

Console.Write("Enter the Number= ");

n = int.Parse(Console.ReadLine());

while (n > 0)

{

r = n % 10;

sum = sum \* 10 + r;

n = n / 10;

}

n = sum;

while (n > 0)

{

r = n % 10;

switch (r)

{

case 1:

Console.Write("one ");

break;

case 2:

Console.Write("two ");

break;

case 3:

Console.Write("three ");

break;

case 4:

Console.Write("four ");

break;

case 5:

Console.Write("five ");

break;

case 6:

Console.Write("six ");

break;

case 7:

Console.Write("seven ");

break;

case 8:

Console.Write("eight ");

break;

case 9:

Console.Write("nine ");

break;

case 0:

Console.Write("zero ");

break;

default:

Console.Write("tttt ");

break;

}//end of switch

n = n / 10;

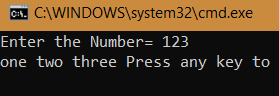
}//end of while loop

}

}

}

**Output:**



**Practical 2**

**Aim: Standard Validation Controls**

1. **RequiredFieldValidator Control**

**Source Code:**

**RequiredFieldValidator.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Required Field Validator.aspx.cs"Inherits="Practical1.Required\_Field\_Validator"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.auto-style1 {

width: 100%;

}

.auto-style2 {

width: 277px;

text-align: right;

}

.auto-style3 {

text-align: justify;

}

</style>

</head>

<body>

<formid="form1"runat="server">

<div>

<tableclass="auto-style1">

<tr>

<tdclass="auto-style2">First Name:</td>

<td>

<asp:TextBoxID="TextBoxFName"runat="server"Width="285px"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator1"runat="server"ControlToValidate="TextBoxFName"ErrorMessage="Please Enter Your First Name"ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<tdclass="auto-style2">Last Name:</td>

<td>

<asp:TextBoxID="TextBoxLName"runat="server"Width="285px"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator2"runat="server"ControlToValidate="TextBoxLName"ErrorMessage="Please Enter Your Last Name"ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<tdclass="auto-style2">Contact No.:</td>

<td>

<asp:TextBoxID="TextBoxCNo"runat="server"Width="285px"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator3"runat="server"ControlToValidate="TextBoxCNo"ErrorMessage="Please Enter Your Contact Number"ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<tdclass="auto-style2">Address:</td>

<td>

<asp:TextBoxID="TextBoxAdd"runat="server"TextMode="MultiLine"Width="285px"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator4"runat="server"ControlToValidate="TextBoxAdd"ErrorMessage="Please Enter Your Address"ForeColor="Red"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<tdclass="auto-style3"colspan="2">

<br/>

<asp:ButtonID="Button1"runat="server"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"Font-Size="Medium"ForeColor="White"Height="51px"Text="Save"Width="244px"OnClick="Button1\_Click"/>

<br/>

<br/>

<asp:LabelID="lblStatus"runat="server"ForeColor="Lime"></asp:Label>

</td>

</tr>

<tr>

<tdclass="auto-style3"colspan="2">

&nbsp;</td>

</tr>

</table>

</div>

</form>

</body>

</html>

**RequiredFieldValidator.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practical1

{

publicpartialclassRequired\_Field\_Validator : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

if(Page.IsValid)

{

lblStatus.Text = "Successful";

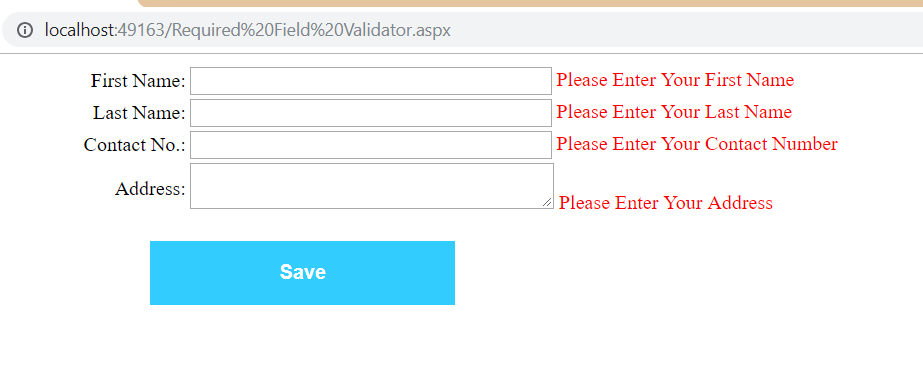
}

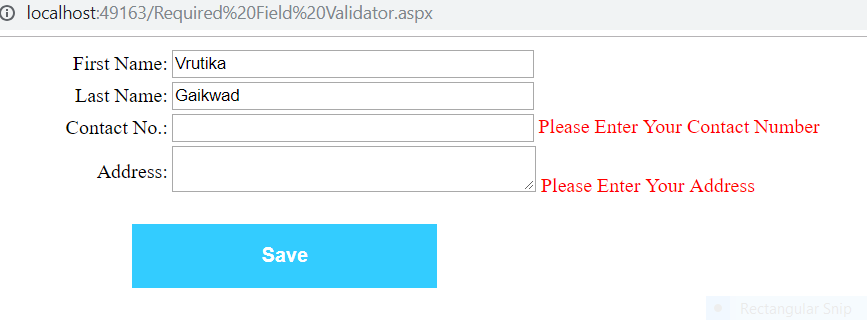
}

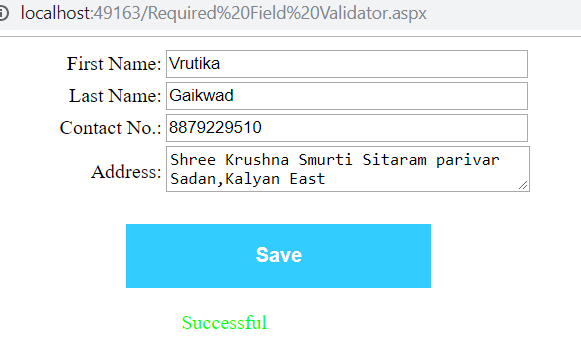
}

}

**Output:**

****

****

****

1. **RangeValidator Control**

**Source Code:**

**RangeValidator.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="RangeValidator.aspx.cs"Inherits="Practical1.RangeValidator"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.auto-style1 {

width: 100%;

}

.auto-style3 {

width: 335px;

}

.auto-style4 {

height: 26px;

}

.auto-style5 {

width: 243px;

text-align: right;

}

</style>

</head>

<body>

<formid="form1"runat="server">

<div>

<tableclass="auto-style1">

<tr>

<tdclass="auto-style5">Age:</td>

<tdclass="auto-style3">

<asp:TextBoxID="TextBoxFName"runat="server"Width="285px"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator1"runat="server"ControlToValidate="TextBoxFName"ErrorMessage="Please Enter Your Age"ForeColor="Red"Display="Dynamic"></asp:RequiredFieldValidator>

<asp:RangeValidatorID="RangeValidator1"runat="server"ControlToValidate="TextBoxFName"Display="Dynamic"ErrorMessage="Age must Be Between 18 and 60"ForeColor="Red"MaximumValue="60"MinimumValue="18"Type="Integer"></asp:RangeValidator>

</td>

</tr>

<tr>

<tdclass="auto-style5">Date Available:</td>

<tdclass="auto-style3">

<asp:TextBoxID="TextBoxFName0"runat="server"Width="285px"TextMode="Date"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator2"runat="server"ControlToValidate="TextBoxFName0"ErrorMessage="Please Enter Date"ForeColor="Red"Display="Dynamic"></asp:RequiredFieldValidator>

<asp:RangeValidatorID="RangeValidator2"runat="server"ControlToValidate="TextBoxFName0"Display="Dynamic"ErrorMessage="Date Must Be 01-01-2018 and 31-12-2018"ForeColor="Red"MaximumValue="31-12-2018"MinimumValue="01-01-2018"Type="Date"></asp:RangeValidator>

</td>

</tr>

<tr>

<tdclass="auto-style4"colspan="2><asp:ButtonID="Button1"runat="server"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"Font-Size="Medium"ForeColor="White"Height="28px"Text="Save"Width="204px"OnClick="Button1\_Click"/>

<br/>

<br/>

<asp:LabelID="lblStatus"runat="server"ForeColor="Lime"></asp:Label>

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

**RangeValidator.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practical1

{

publicpartialclassRangeValidator : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

if (Page.IsValid)

{

lblStatus.Text = "Successful";

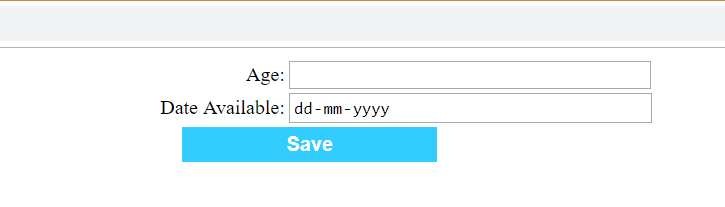
}

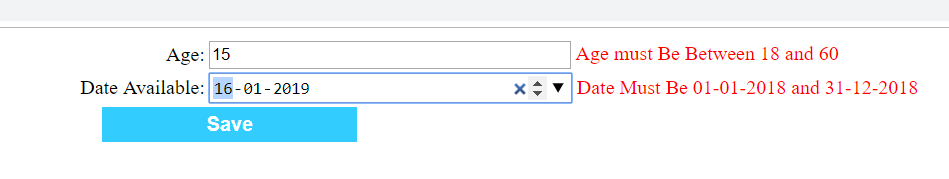
}

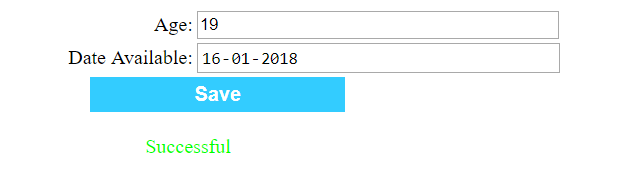
}

}

**Output:**

****

****

****

1. **CompareValidator Control**

**Source Code**

**CompareValidator.apsx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="CompareValidator.aspx.cs"Inherits="Practical1.CompareValidator"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.auto-style1 {

width: 100%;

}

.auto-style5 {

width: 243px;

text-align: right;

}

.auto-style3 {

width: 335px;

}

.auto-style4 {

height: 26px;

}

.auto-style6 {

width: 243px;

text-align: right;

height: 73px;

}

.auto-style7 {

width: 335px;

height: 73px;

}

</style>

</head>

<body>

<formid="form2"runat="server">

<div>

<tableclass="auto-style1">

<tr>

<tdclass="auto-style5">Password:</td>

<tdclass="auto-style3">

<asp:TextBoxID="TextBoxPass"runat="server"Width="285px"TextMode="Password"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator3"runat="server"ControlToValidate="TextBoxPass"ErrorMessage="Please Enter Password"ForeColor="Red"Display="Dynamic"></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<tdclass="auto-style5">Confirm Password:</td>

<tdclass="auto-style3">

<asp:TextBoxID="TextBoxCpass"runat="server"Width="285px"TextMode="Password"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator4"runat="server"ControlToValidate="TextBoxCpass"ErrorMessage="Please Confirm Your Password"ForeColor="Red"Display="Dynamic"></asp:RequiredFieldValidator>

<asp:CompareValidatorID="CompareValidator1"runat="server"ControlToCompare="TextBoxPass"ControlToValidate="TextBoxCpass"Display="Dynamic"ErrorMessage="Should Be Same As Password"ForeColor="Red"></asp:CompareValidator>

</td>

</tr>

<tr>

<tdclass="auto-style5">Date of Application:</td>

<tdclass="auto-style3">

<asp:TextBoxID="TextBoxDate"runat="server"Width="285px"TextMode="Date"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator2"runat="server"ControlToValidate="TextBoxDate"ErrorMessage="Please Enter Date"ForeColor="Red"Display="Dynamic"></asp:RequiredFieldValidator>

<asp:RangeValidatorID="RangeValidator2"runat="server"ControlToValidate="TextBoxDate"Display="Dynamic"ErrorMessage="Date Must Be Greater than 01-01-2018"ForeColor="Red"MaximumValue="01-01-3018"MinimumValue="01-01-2018"Type="Date"></asp:RangeValidator>

</td>

</tr>

<tr>

<tdclass="auto-style6">Age:</td>

<tdclass="auto-style7">

<asp:TextBoxID="TextBoxAge"runat="server"Width="285px"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidator1"runat="server"ControlToValidate="TextBoxAge"ErrorMessage="Please Enter Your Age"ForeColor="Red"Display="Dynamic"></asp:RequiredFieldValidator>

<asp:CompareValidatorID="CompareValidator2"runat="server"ControlToValidate="TextBoxAge"Display="Dynamic"ErrorMessage="Age Must Be Number"ForeColor="Red"Type="Integer"Operator="DataTypeCheck"></asp:CompareValidator>

</td>

</tr>

<tr>

<tdclass="auto-style4"colspan="2">

<asp:ButtonID="Button1"runat="server"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"Font-Size="Medium"ForeColor="White"Height="28px"Text="Save"Width="204px"OnClick="Button1\_Click"/>

<br/>

<br/>

<asp:LabelID="lblStatus"runat="server"ForeColor="Lime"></asp:Label>

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

**CompareValidator.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practical1

{

publicpartialclassCompareValidator : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

if (Page.IsValid)

{

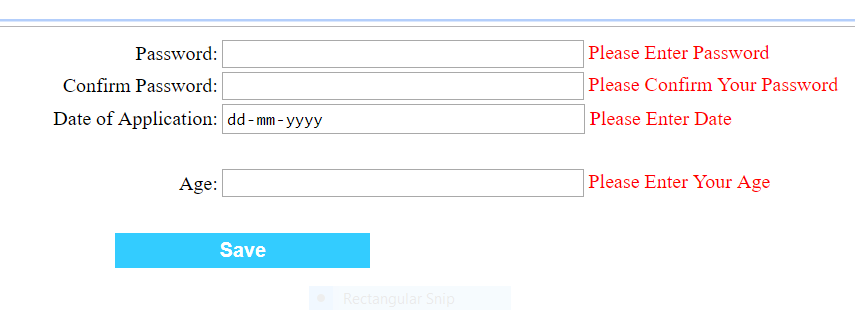
lblStatus.Text = "Successful";

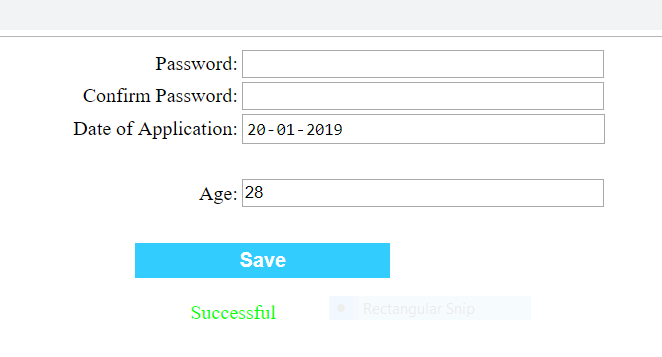
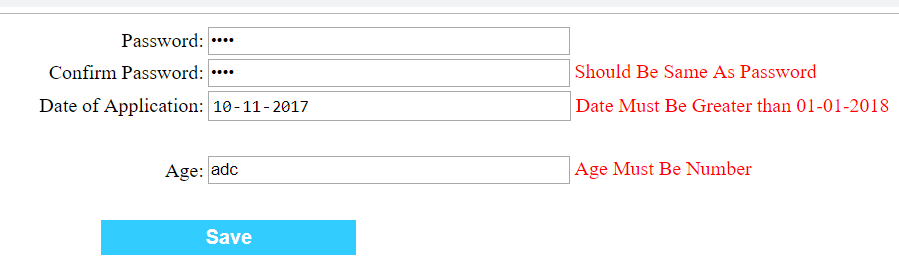
}

}

}

}

**Output:**

****

1. **RegularExpressionValidator Control**

**Source Code:**

**RegularExpressionValidator.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="RegularExpressionValidator.aspx.cs"Inherits="Practical1.RegularExpressionValidator"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<strong>Email:</strong>

<asp:TextBoxID="txtEmail"runat="server"Width="323px"></asp:TextBox>

<asp:RegularExpressionValidatorID="RegularExpressionValidatorEmail"runat="server"ControlToValidate="txtEmail"ValidationExpression="\w+([-+.']\w+)\*@\w+([-.]\w+)\*\.\w+([-.]\w+)\*"ErrorMessage="Invalid Email"ForeColor="Red"></asp:RegularExpressionValidator>

<br/>

<asp:ButtonID="Button1"runat="server"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"Font-Size="Medium"ForeColor="White"Height="28px"Text="Save"Width="204px"/>

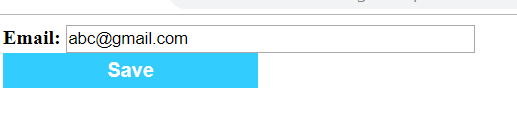
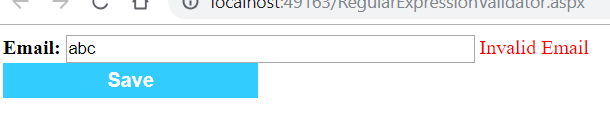
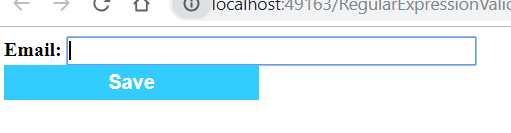
</div>

</form>

</body>

</html>

**Output:**

****

1. **CustomValidator Control**

**Source Code:**

**CustomValidator.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="CustomValidator.aspx.cs"Inherits="Practical1.CustomValidator"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<scripttype="text/javascript">

// Client side validation function to check if the number is even.

function IsEven(source, args)

{

if (args.Value == "")

{

args.IsValid = false;

}

else

{

if (args.Value % 2 == 0)

{

args.IsValid = true;

}

else

{

args.IsValid = false;

}

}

}

</script>

<body>

<formid="form2"runat="server">

<divstyle="font-family: Arial">

<table>

<tr>

<td>

<b>Please enter a positive even number</b>

</td>

<td>

<asp:TextBoxID="txtEvenNumber"runat="server"></asp:TextBox>

<asp:CustomValidatorID="CustomValidatorEvenNumber"runat="server"

ForeColor="Red"

ErrorMessage="Not an even number"

OnServerValidate="CustomValidatorEvenNumber\_ServerValidate"

ControlToValidate="txtEvenNumber"

ClientValidationFunction="IsEven"

ValidateEmptyText="true">

</asp:CustomValidator>

</td>

</tr>

<tr>

<tdcolspan="2">

<asp:ButtonID="btnSubmit"runat="server"Text="Save"

onclick="btnSubmit\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"Width="202px"/>

</td>

</tr>

<tr>

<tdcolspan="2">

<asp:LabelID="lblStatus"runat="server"Font-Bold="true"></asp:Label>

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

**CustomValidator.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practical1

{

publicpartialclassCustomValidator : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid CustomValidatorEvenNumber\_ServerValidate(object source, ServerValidateEventArgs args)

{

}

protectedvoid btnSubmit\_Click(object sender, EventArgs e)

{

if (Page.IsValid)

{

lblStatus.Text = "Data Saved";

lblStatus.ForeColor = System.Drawing.Color.Green;

}

else

{

lblStatus.Text = "Validation Error! Data Not Saved";

lblStatus.ForeColor = System.Drawing.Color.Red;

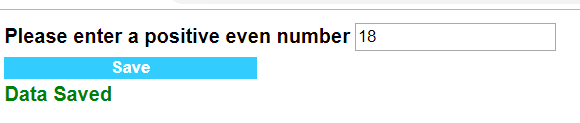
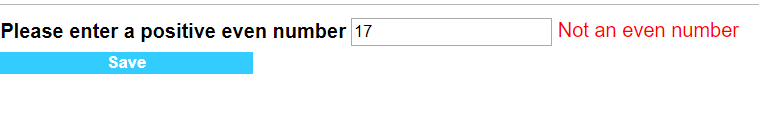
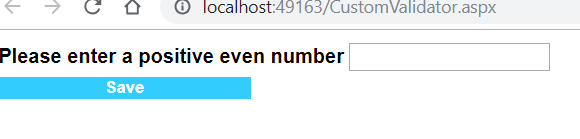
}

}

}

}

**Output:**

****

1. **Summary Control**

**Source Code:**

**Summary.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Summary.aspx.cs"Inherits="Practical1.Summary"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<divstyle="font-family: Arial">

<tablestyle="border: 1px solid black">

<tr>

<tdcolspan="2">

<h2>User Registration</h2>

</td>

</tr>

<tr>

<td>

<b>Email</b>

</td>

<td>

<asp:TextBoxID="txtEmail"runat="server"Width="100px">

</asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidatorEmail"

runat="server"ForeColor="Red"

ErrorMessage="Email is required"

ControlToValidate="txtEmail"Display="Dynamic"Text="\*">

</asp:RequiredFieldValidator>

<asp:RegularExpressionValidatorID="RegularExpressionValidatorEmail"

runat="server"ErrorMessage="Invalid Email Format"

ControlToValidate="txtEmail"ForeColor="Red"

ValidationExpression="\w+([-+.']\w+)\*@\w+([-.]\w+)\*\.\w+([-.]\w+)\*"

Text="\*">

</asp:RegularExpressionValidator>

</td>

</tr>

<tr>

<td>

<b>User Name</b>

</td>

<td>

<asp:TextBoxID="txtUserName"runat="server"Width="100px">

</asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidatorUserName"

runat="server"ForeColor="Red"

ErrorMessage="Username is required"

ControlToValidate="txtUserName"Display="Dynamic"Text="\*">

</asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td>

<b>Password</b>

</td>

<td>

<asp:TextBoxID="txtPassword"runat="server"Width="100px"

TextMode="Password"></asp:TextBox>

<asp:RequiredFieldValidatorID="RequiredFieldValidatorPassword"

runat="server"ForeColor="Red"

ErrorMessage="Password is required"

ControlToValidate="txtPassword"Display="Dynamic"Text="\*">

</asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td>

<b>Confirm Password</b>

</td>

<td>

<asp:TextBoxID="txtConfirmPassword"runat="server"TextMode="Password"

Width="100px"></asp:TextBox>

<asp:CompareValidatorID="CompareValidatorPassword"runat="server"

ErrorMessage="Password and Confirm Password must match"

ControlToValidate="txtConfirmPassword"ControlToCompare="txtPassword"

Operator="Equal"Type="String"ForeColor="Red"Text="\*">

</asp:CompareValidator>

</td>

</tr>

<tr>

<tdcolspan="2">

<asp:ButtonID="btnSubmit"runat="server"Text="Save"

onclick="btnSubmit\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"Width="155px"/>

</td>

</tr>

<tr>

<tdcolspan="2">

<asp:ValidationSummaryID="ValidationSummary1"runat="server"

ForeColor="Red"HeaderText="Page Errors"ShowMessageBox="True"

ShowSummary="true"DisplayMode="List"

/>

</td>

</tr>

<tr>

<tdcolspan="2">

<asp:LabelID="lblStatus"runat="server"Font-Bold="true"></asp:Label>

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

**Summary.apsx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practical1

{

publicpartialclassSummary : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid btnSubmit\_Click(object sender, EventArgs e)

{

if (Page.IsValid)

{

lblStatus.Text = "Saved Successfully";

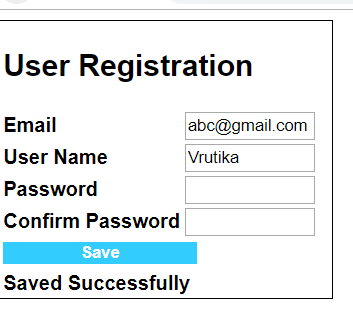
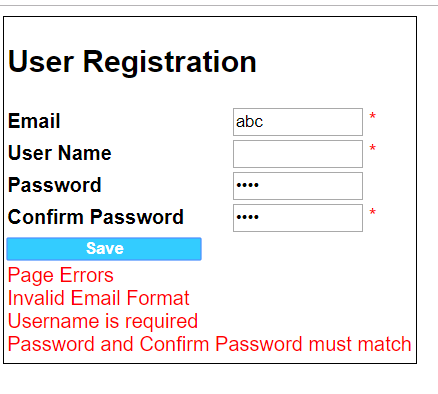
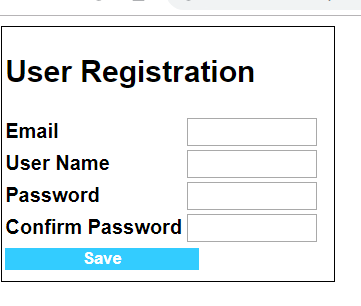
}

}

}

}

**Output:**

****

**Practical 3**

**Aim: Standard Rich Controls**

1. **Calendar Control**

**Source Code:**

**Calender.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Calender.aspx.cs"Inherits="RichControl.Calender"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:TextBoxID="TextBox1"runat="server"Width="293px"></asp:TextBox>

<asp:ImageButtonID="ImageButton1"runat="server"ImageUrl="~/Images/Calendar.png"onclick="ImageButton1\_Click"Height="25px"Width="28px"/>

<asp:CalendarID="Calendar1"runat="server"onselectionchanged="Calendar1\_SelectionChanged"BackColor="White"BorderColor="Black"DayNameFormat="Shortest"Font-Names="Times New Roman"Font-Size="10pt"ForeColor="Black"Height="220px"NextPrevFormat="FullMonth"TitleFormat="Month"Width="299px">

<DayHeaderStyleBackColor="#CCCCCC"Font-Bold="True"Font-Size="7pt"ForeColor="#333333"Height="10pt"/>

<DayStyleWidth="14%"/>

<NextPrevStyleFont-Size="8pt"ForeColor="White"/>

<OtherMonthDayStyleForeColor="#999999"/>

<SelectedDayStyleBackColor="#CC3333"ForeColor="White"/>

<SelectorStyleBackColor="#CCCCCC"Font-Bold="True"Font-Names="Verdana"Font-Size="8pt"ForeColor="#333333"Width="1%"/>

<TitleStyleBackColor="Black"Font-Bold="True"Font-Size="13pt"ForeColor="White"Height="14pt"/>

<TodayDayStyleBackColor="#CCCC99"/>

</asp:Calendar>

</div>

</form>

</body>

</html>

**Calender.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace RichControl

{

publicpartialclassCalender : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

if (!IsPostBack)

{

Calendar1.Visible = false;

}

}

protectedvoid ImageButton1\_Click(object sender, ImageClickEventArgs e)

{

if (Calendar1.Visible)

{

Calendar1.Visible = false;

}

else

{

Calendar1.Visible = true;

}

}

protectedvoid Calendar1\_SelectionChanged(object sender, EventArgs e)

{

TextBox1.Text = Calendar1.SelectedDate.ToShortDateString ();

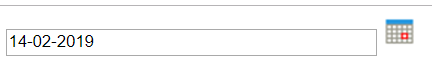
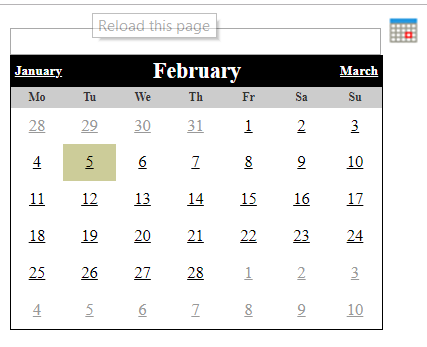
Calendar1.Visible = false;

}

}

}

**Output:**

****

1. **AdRotator**

**Source Code:**

**AdRotator.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="AdRotator.aspx.cs"Inherits="RichControl.AdRotator"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:AdRotatorID="AdRotator1"runat="server"AdvertisementFile="~/AdsData.xml"/>

</div>

</form>

</body>

</html>

**AdsData.xml**

<?xmlversion="1.0"encoding="utf-8" ?>

<Advertisements>

<Ad>

<ImageUrl>~/Images/Google.png</ImageUrl>

<NavigateUrl>http://google.com</NavigateUrl>

<AlternateText>Please visit http://www.Google.com</AlternateText>

<Keyword>Google</Keyword>

<Impressions>10</Impressions>

</Ad>

<Ad>

<ImageUrl>~/Images/TutorialPoints.png</ImageUrl>

<NavigateUrl>http://TutorialPoints.com</NavigateUrl>

<AlternateText>Please visit http://www.TutorialPoints.com</AlternateText>

<Keyword>Tutorial</Keyword>

<Impressions>20</Impressions>

</Ad>

<Ad>

<ImageUrl>~/Images/Youtube.png</ImageUrl>

<NavigateUrl>http://Youtube.com</NavigateUrl>

<AlternateText>Please visit http://www.Youtube.com</AlternateText>

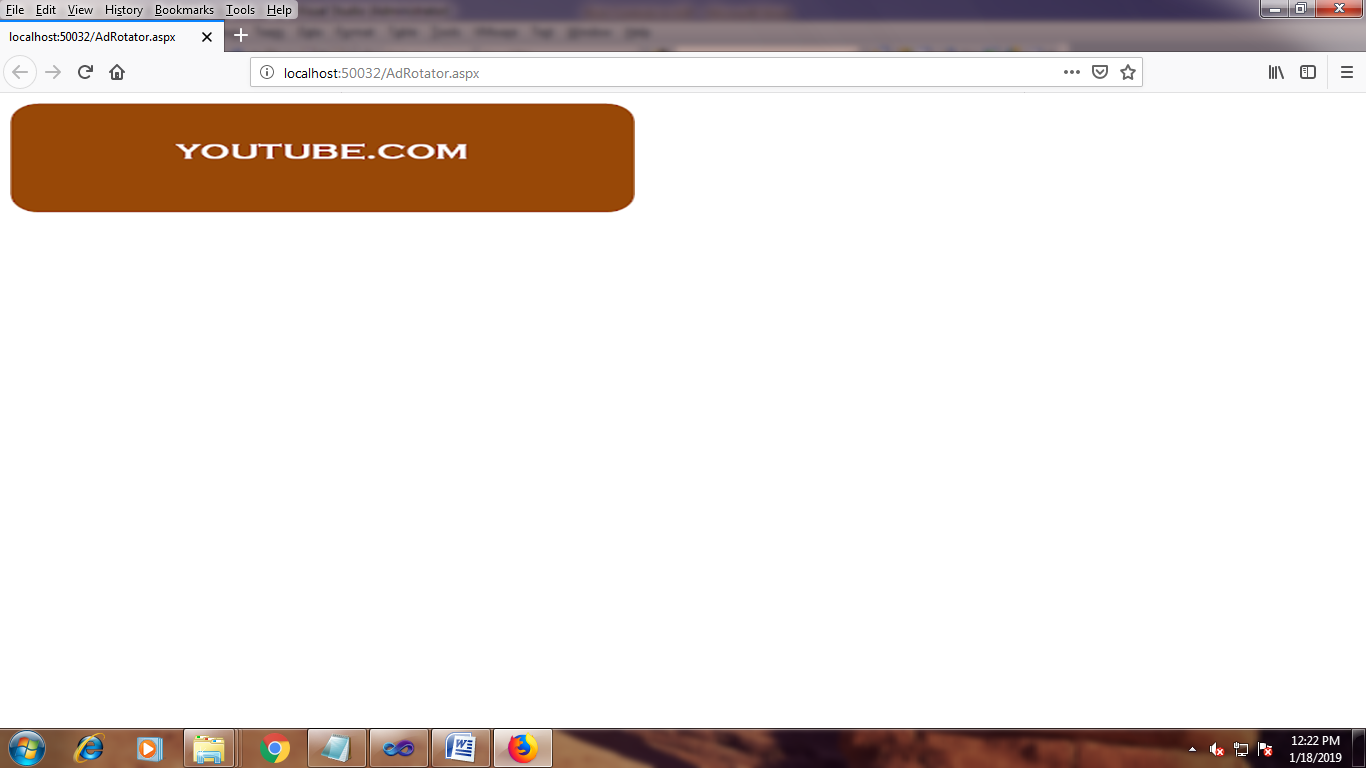
<Keyword>Google</Keyword>

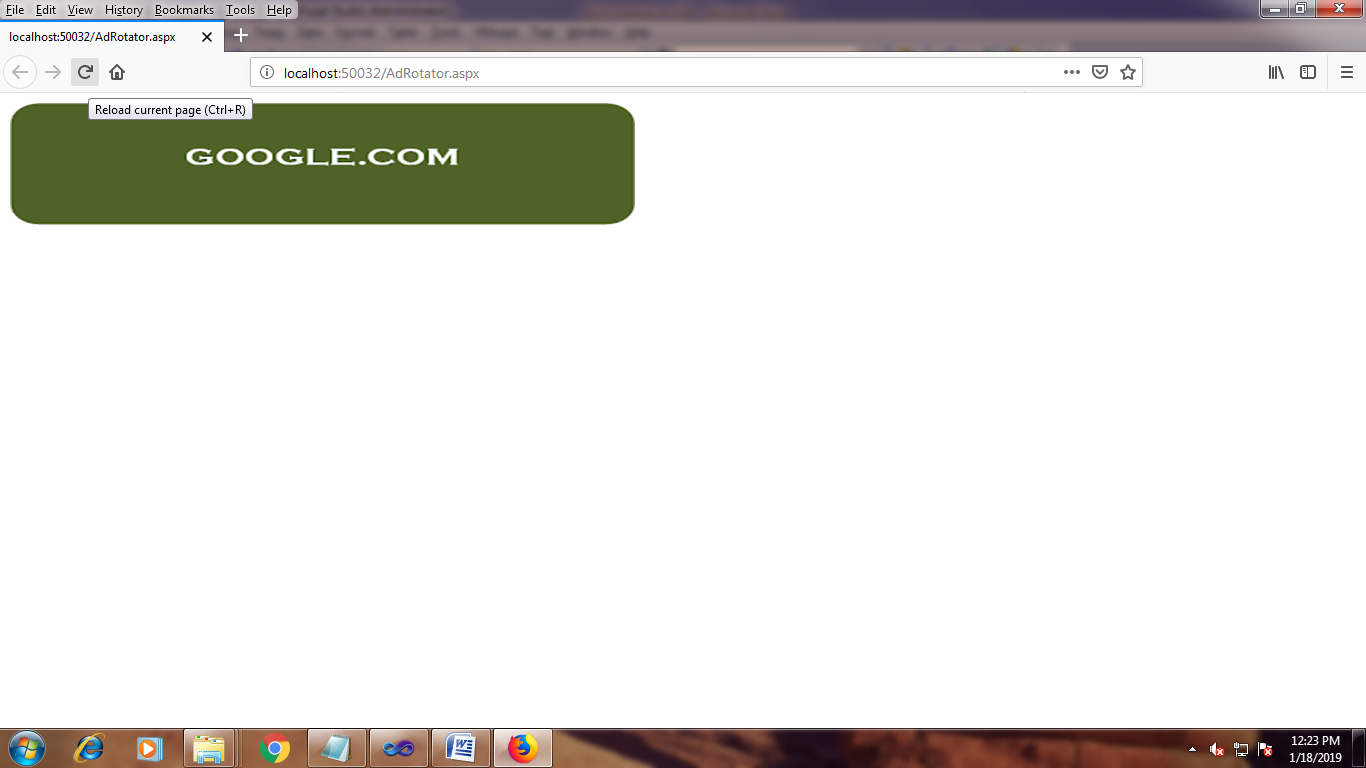
<Impressions>40</Impressions>

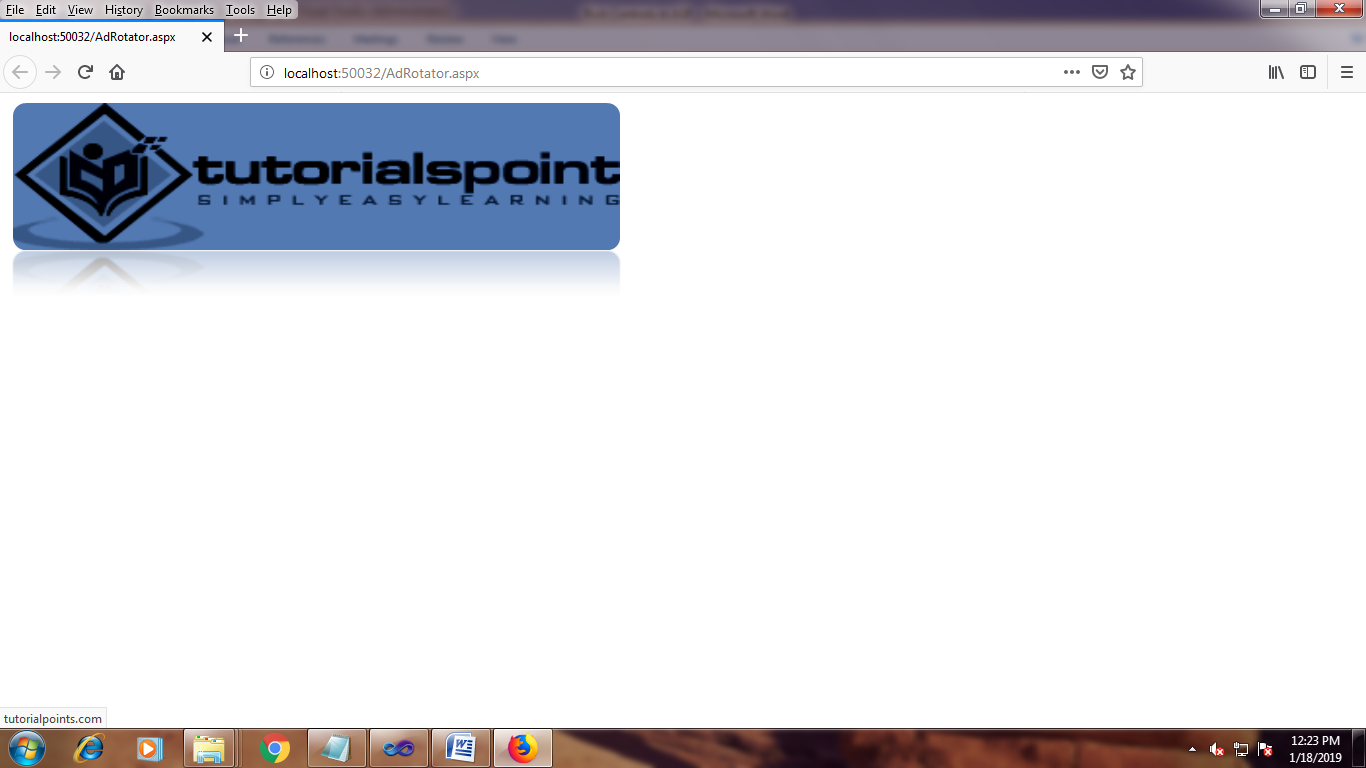
</Ad>

</Advertisements>

**Output:**







1. **MultiView Control**

**Source Code:**

**Multiview.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="MultiView.aspx.cs"Inherits="RichControl.MultiView"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.auto-style2 {

width: 212px;

}

.auto-style3 {

width: 213px;

}

.auto-style4 {

width: 220px;

}

.auto-style5 {

width: 309px;

}

.auto-style6 {

width: 221px;

}

</style>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:MultiViewID="multiViewEmployee"runat="server">

<asp:ViewID="viewPersonalDetails"runat="server">

<tablestyle="border:1px solid black">

<tr>

<tdcolspan="2">

<h2>Step 1 - Personal Details</h2>

</td>

</tr>

<tr>

<tdclass="auto-style2">First Name</td>

<tdclass="auto-style4">

<asp:TextBoxID="txtFirstName"runat="server"Width="212px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style2">Last Name</td>

<tdclass="auto-style4">

<asp:TextBoxID="txtLastName"runat="server"Width="212px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style2">Gender</td>

<tdclass="auto-style4">

<asp:DropDownListID="ddlGender"runat="server"Width="212px">

<asp:ListItemText="Male"Value="Male"></asp:ListItem>

<asp:ListItemText="Female"Value="Female"></asp:ListItem>

</asp:DropDownList>

</td>

</tr>

<tr>

<tdcolspan="2"style="text-align:right">

<asp:ButtonID="btnGoToStep2"runat="server"

Text="Step 2"onclick="btnGoToStep2\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"/>

</td>

</tr>

</table>

</asp:View>

<asp:ViewID="viewContactDetails"runat="server">

<tablestyle="border:1px solid black">

<tr>

<tdcolspan="2">

<h2>Step 2 - Contact Details</h2>

</td>

</tr>

<tr>

<tdclass="auto-style3">Email Address</td>

<tdclass="auto-style4">

<asp:TextBoxID="txtEmail"runat="server"Width="212px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style3">Mobile Number</td>

<tdclass="auto-style4">

<asp:TextBoxID="txtMobile"runat="server"Width="212px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style3">

<asp:ButtonID="btnBackToStep1"runat="server"Text="Step 1"

onclick="btnBackToStep1\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"/>

</td>

<tdstyle="text-align:right"class="auto-style4">

<asp:ButtonID="btnGoToStep3"runat="server"Text="Step 3"

onclick="btnGoToStep3\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"/>

</td>

</tr>

</table>

</asp:View>

<asp:ViewID="viewSummary"runat="server">

<tablestyle="border:1px solid black">

<tr>

<tdcolspan="2"><h2>Step 3 - Summary</h2></td>

</tr>

<tr>

<tdcolspan="2"><h3>Personal Details</h3></td>

</tr>

<tr>

<tdclass="auto-style3">First Name</td>

<tdclass="auto-style6">

:<asp:LabelID="lblFirstName"runat="server"></asp:Label>

</td>

</tr>

<tr>

<tdclass="auto-style3">Last Name</td>

<tdclass="auto-style6">

:<asp:LabelID="lblLastName"runat="server"></asp:Label>

</td>

</tr>

<tr>

<tdclass="auto-style3">Gender</td>

<tdclass="auto-style6">

:<asp:LabelID="lblGender"runat="server"></asp:Label>

</td>

</tr>

<tr>

<tdcolspan="2"><h3>Contact Details</h3></td>

</tr>

<tr>

<tdclass="auto-style3">Email Address</td>

<tdclass="auto-style6">

:<asp:LabelID="lblEmail"runat="server"></asp:Label>

</td>

</tr>

<tr>

<tdclass="auto-style3">Mobile Number</td>

<tdclass="auto-style6">

:<asp:LabelID="lblMobile"runat="server"></asp:Label>

</td>

</tr>

<tr>

<tdclass="auto-style3">

<asp:ButtonID="Button1"runat="server"Text="Step 2"

onclick="Button1\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"/>

</td>

<tdstyle="text-align:right"class="auto-style6">

<asp:ButtonID="Button2"runat="server"Text="Submit"

onclick="Button2\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"/>

</td>

</tr>

</table>

</asp:View>

</asp:MultiView>

</div>

</form>

</body>

</html>

**Confirmation.apsx**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace RichControl

{

publicpartialclassMultiView : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

if (!IsPostBack)

{

multiViewEmployee.ActiveViewIndex = 0;

}

}

protectedvoid btnGoToStep2\_Click(object sender, EventArgs e)

{

multiViewEmployee.ActiveViewIndex = 1;

}

protectedvoid btnBackToStep1\_Click(object sender, EventArgs e)

{

multiViewEmployee.ActiveViewIndex = 0;

}

protectedvoid btnGoToStep3\_Click(object sender, EventArgs e)

{

lblFirstName.Text = txtFirstName.Text;

lblLastName.Text = txtLastName.Text;

lblGender.Text = ddlGender.SelectedValue;

lblEmail.Text = txtEmail.Text;

lblMobile.Text = txtMobile.Text;

multiViewEmployee.ActiveViewIndex = 2;

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

multiViewEmployee.ActiveViewIndex = 1;

}

protectedvoid Button2\_Click(object sender, EventArgs e)

{

Response.Redirect("~/Confirmation.aspx");

}

}

}

**Multiview.apsx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace RichControl

{

publicpartialclassMultiView : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

if (!IsPostBack)

{

multiViewEmployee.ActiveViewIndex = 0;

}

}

protectedvoid btnGoToStep2\_Click(object sender, EventArgs e)

{

multiViewEmployee.ActiveViewIndex = 1;

}

protectedvoid btnBackToStep1\_Click(object sender, EventArgs e)

{

multiViewEmployee.ActiveViewIndex = 0;

}

protectedvoid btnGoToStep3\_Click(object sender, EventArgs e)

{

lblFirstName.Text = txtFirstName.Text;

lblLastName.Text = txtLastName.Text;

lblGender.Text = ddlGender.SelectedValue;

lblEmail.Text = txtEmail.Text;

lblMobile.Text = txtMobile.Text;

multiViewEmployee.ActiveViewIndex = 2;

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

multiViewEmployee.ActiveViewIndex = 1;

}

protectedvoid Button2\_Click(object sender, EventArgs e)

{

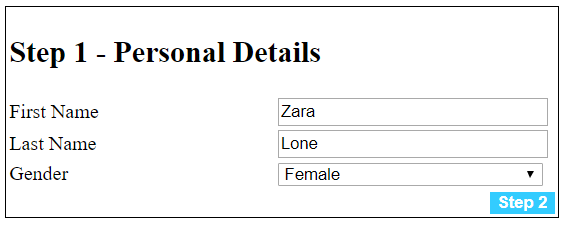
Response.Redirect("~/Confirmation.aspx");

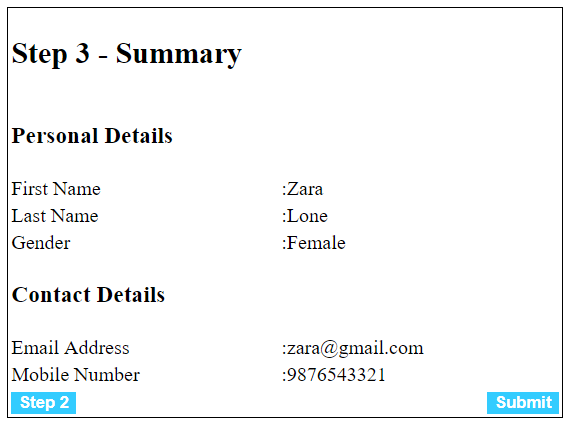
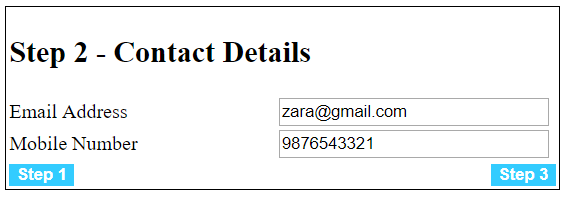
}

}

}

**Output:**

****

****

**Practical 4**

**Aim: Design A Master Page**

**Source Code:**

**Site1.Master**

<%@MasterLanguage="C#"AutoEventWireup="true"CodeFile="~/Site1.Master.cs"Inherits="MasterPage.Site1"%>

<!DOCTYPEhtml>

<html>

<headrunat="server">

<title></title>

<asp:ContentPlaceHolderID="head"runat="server">

</asp:ContentPlaceHolder>

<styletype="text/css">

.auto-style1 {

font-size: xx-small;

}

.auto-style2 {

width: 100%;

}

.auto-style3 {

width: 544px;

height: 174px;

}

.auto-style5 {

height: 174px;

font-size: large;

}

</style>

</head>

<body>

<formid="form1"runat="server">

<divstyle="background-color:chartreuse">

<asp:HyperLinkID="HyperLink1"runat="server"NavigateUrl="~/Home.aspx">Home</asp:HyperLink>

<asp:HyperLinkID="HyperLink2"runat="server"NavigateUrl="~/AboutUs.aspx">About Us</asp:HyperLink>

<asp:HyperLinkID="HyperLink3"runat="server"NavigateUrl="~/ContactUs.aspx">Contact Us</asp:HyperLink>

</div>

<div>

<tableclass="auto-style2">

<tr>

<tdclass="auto-style5"style="background-color: #FF00FF"><strong>Left Panel</strong></td>

<tdclass="auto-style3"><asp:ContentPlaceHolderID="ContentPlaceHolder1"runat="server"></asp:ContentPlaceHolder></td>

<tdclass="auto-style5"style="background-color: #FF00FF"><strong>Right Panel</strong></td>

</tr>

</table>

</div>

<divstyle="background-color:chartreuse">

<strong>Copyright Reserved</strong>

</div>

</form>

</body>

</html>

**Home.aspx**

<%@PageTitle=""Language="C#"MasterPageFile="~/Site1.Master"AutoEventWireup="true"CodeBehind="Home.aspx.cs"Inherits="MasterPage.Home"%>

<asp:ContentID="Content1"ContentPlaceHolderID="head"runat="server">

</asp:Content>

<asp:ContentID="Content2"ContentPlaceHolderID="ContentPlaceHolder1"runat="server">

<p>

This is Home Page</p>

</asp:Content>

**AboutUs.aspx**

<%@PageTitle=""Language="C#"MasterPageFile="~/Site1.Master"AutoEventWireup="true"CodeBehind="AboutUs.aspx.cs"Inherits="Ma

sterPage.AboutUs"%>

<asp:ContentID="Content1"ContentPlaceHolderID="head"runat="server">

</asp:Content>

<asp:ContentID="Content2"ContentPlaceHolderID="ContentPlaceHolder1"runat="server">

<p>

This is About Us Page</p>

</asp:Content>

**ContactUs.aspx**

<%@PageTitle=""Language="C#"MasterPageFile="~/Site1.Master"AutoEventWireup="true"CodeBehind="ContactUs.aspx.cs"Inherits="MasterPage.ContactUs"%>

<asp:ContentID="Content1"ContentPlaceHolderID="head"runat="server">

</asp:Content>

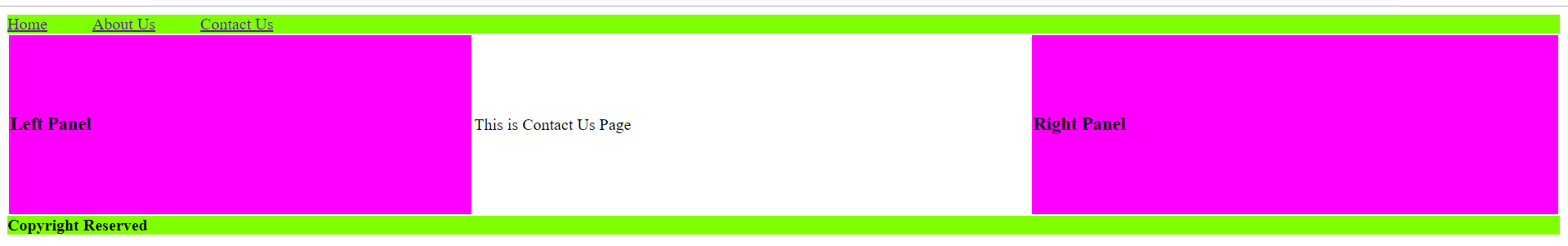
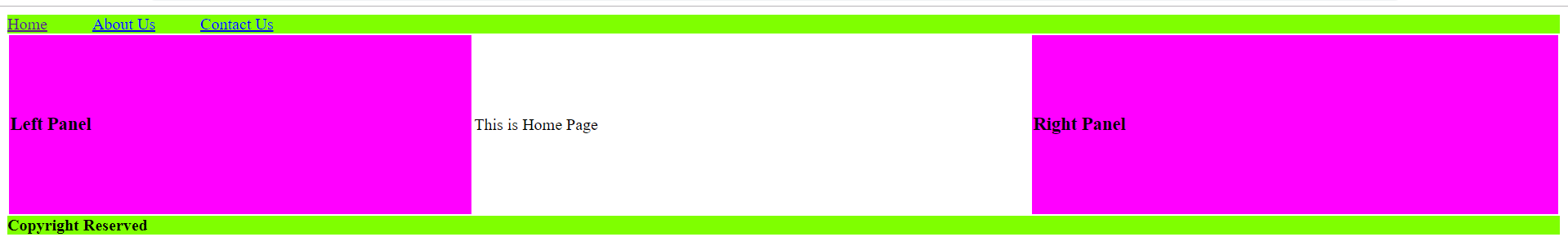
<asp:ContentID="Content2"ContentPlaceHolderID="ContentPlaceHolder1"runat="server">

<p>

This is Contact Us Page</p>

</asp:Content>

**Output:**

****

**Practical 5**

**Aim: ADO.NET and Data Binding in ASP.NET**

1. **Inserting Data into Database**

**Source Code:**

**Data.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="GridView.aspx.cs"Inherits="DataBinding.GridView"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.style1

{

text-decoration: underline;

text-align: center;

font-size: xx-large;

}

.style2

{

width: 82%;

height: 132px;

}

.style3

{

}

.style4

{

width: 163px;

}

.auto-style1 {

width: 163px;

text-align: right;

}

.auto-style2 {

text-align: left;

}

.auto-style3 {

text-align: center;

}

.auto-style4 {

width: 39%;

height: 132px;

}

</style>

</head>

<body>

<formid="form1"runat="server">

<divclass="style1">

<strong>Insert DATA into Database<br/>

</strong>

</div>

<tableclass="auto-style4"align="center">

<tr>

<tdclass="auto-style1">

<strong>First Name:</strong></td>

<tdclass="auto-style2">

<asp:TextBoxID="txtFname"runat="server"Width="200px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style1">

<strong>Last Name:</strong></td>

<tdclass="auto-style2">

<asp:TextBoxID="txtLname"runat="server"Width="200px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style1">

<strong>City:</strong></td>

<tdclass="auto-style2">

<asp:TextBoxID="txtCity"runat="server"Width="200px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="style4">

&nbsp;</td>

<tdclass="auto-style2">

<asp:ButtonID="Button1"runat="server"onclick="Button1\_Click"Text="Submit"

Width="140px"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"/>

</td>

</tr>

<tr>

<tdclass="auto-style3"colspan="2">

<asp:LabelID="Label1"runat="server"style="color: #009933"Visible="False"></asp:Label>

</td>

</tr>

</table>

<asp:SqlDataSourceID="SqlDataSource1"runat="server"

ConnectionString="<%$ ConnectionStrings:SYCSConnectionString %>"

SelectCommand="SELECT \* FROM [tbl]"></asp:SqlDataSource>

</form>

</body>

</html>

**Data.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data.SqlClient;

using System.Configuration;

namespace DataBinding

{

publicpartialclassGridView : System.Web.UI.Page

{

SqlConnection con = new SqlConnection(ConfigurationManager.ConnectionStrings["SYCSConnectionString"].ConnectionString);

protectedvoid Page\_Load(object sender, EventArgs e)

{

con.Open();

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

SqlCommand cmd = new SqlCommand("insert into tbl values('" + txtFname.Text + "','" + txtLname.Text + "','" + txtCity.Text + "')", con);

cmd.ExecuteNonQuery();

con.Close();

Label1.Visible = true;

Label1.Text = "Your Data stored Successfully";

txtFname.Text = "";

txtLname.Text = "";

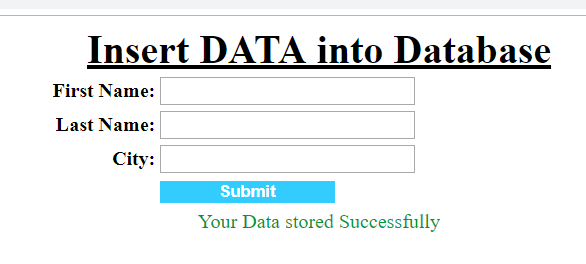
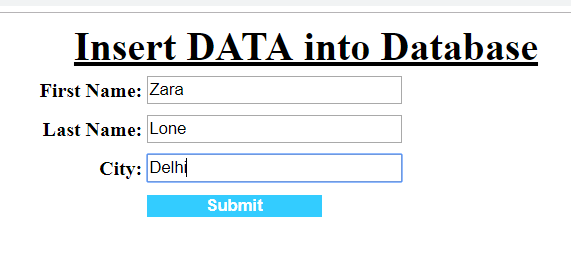
txtCity.Text = "";

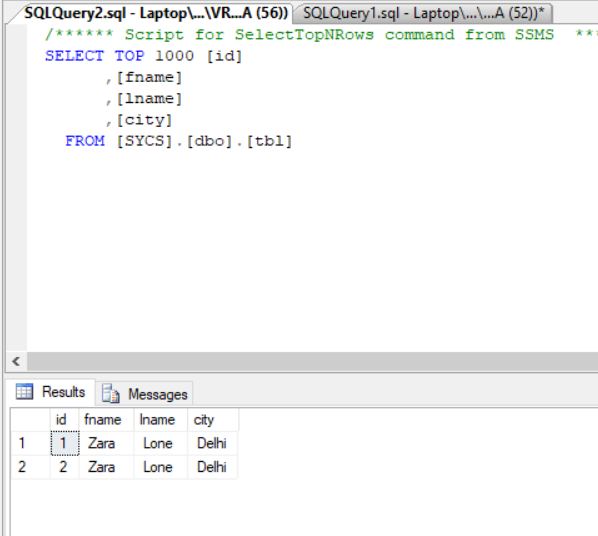
}

}

}

**Output:**

****

****

1. **GridView Control**

**Source Code**

**GridView.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="DetailsView.aspx.cs"Inherits="DataBinding.DetailsView"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:GridViewID="GridView1"runat="server"AllowPaging="True"AllowSorting="True"AutoGenerateColumns="False"CellPadding="4"DataKeyNames="Id"DataSourceID="SqlDataSource1"ForeColor="#333333"GridLines="None"PageSize="3">

<AlternatingRowStyleBackColor="White"/>

<Columns>

<asp:CommandFieldShowSelectButton="True"/>

<asp:BoundFieldDataField="Id"HeaderText="Id"InsertVisible="False"ReadOnly="True"SortExpression="Id"/>

<asp:BoundFieldDataField="FirstName"HeaderText="FirstName"SortExpression="FirstName"/>

<asp:BoundFieldDataField="LastName"HeaderText="LastName"SortExpression="LastName"/>

<asp:BoundFieldDataField="City"HeaderText="City"SortExpression="City"/>

<asp:BoundFieldDataField="Gender"HeaderText="Gender"SortExpression="Gender"/>

<asp:BoundFieldDataField="DateOfBirth"HeaderText="DateOfBirth"SortExpression="DateOfBirth"/>

<asp:BoundFieldDataField="Country"HeaderText="Country"SortExpression="Country"/>

<asp:BoundFieldDataField="Salary"HeaderText="Salary"SortExpression="Salary"/>

<asp:BoundFieldDataField="DateOfJoining"HeaderText="DateOfJoining"SortExpression="DateOfJoining"/>

<asp:BoundFieldDataField="MaritalStatus"HeaderText="MaritalStatus"SortExpression="MaritalStatus"/>

</Columns>

<EditRowStyleBackColor="#2461BF"/>

<FooterStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<HeaderStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<PagerStyleBackColor="#2461BF"ForeColor="White"HorizontalAlign="Center"/>

<RowStyleBackColor="#EFF3FB"/>

<SelectedRowStyleBackColor="#D1DDF1"Font-Bold="True"ForeColor="#333333"/>

<SortedAscendingCellStyleBackColor="#F5F7FB"/>

<SortedAscendingHeaderStyleBackColor="#6D95E1"/>

<SortedDescendingCellStyleBackColor="#E9EBEF"/>

<SortedDescendingHeaderStyleBackColor="#4870BE"/>

</asp:GridView>

<br/>

<asp:SqlDataSourceID="SqlDataSource1"runat="server"ConnectionString="<%$ ConnectionStrings:SYCSConnectionString %>"SelectCommand="SELECT \* FROM [tblEmployee]"></asp:SqlDataSource>

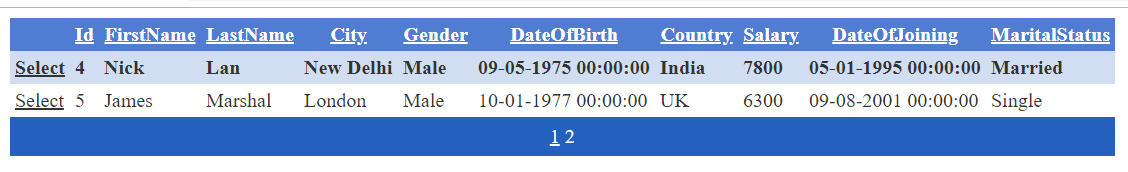
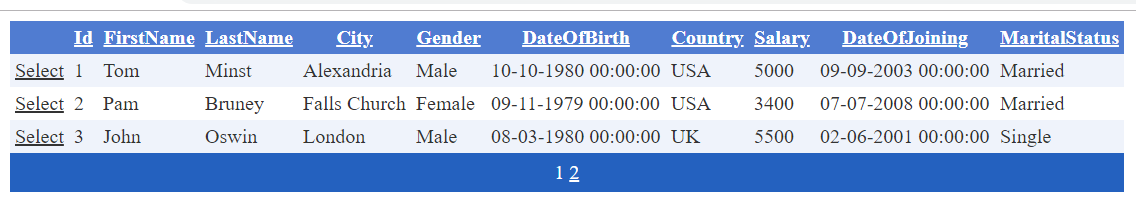
</div>

</form>

</body>

</html>

**Output:**

****

1. **DetailsView Control**

**Source Code:**

**DetailsView.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="DetailsView.aspx.cs"Inherits="DataBinding.DetailsView"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:GridViewID="GridView1"runat="server"AutoGenerateColumns="False"CellPadding="4"DataKeyNames="Id"DataSourceID="SqlDataSource1"ForeColor="#333333"GridLines="None"PageSize="3">

<AlternatingRowStyleBackColor="White"/>

<Columns>

<asp:CommandFieldShowSelectButton="True"/>

<asp:BoundFieldDataField="Id"HeaderText="Id"InsertVisible="False"ReadOnly="True"SortExpression="Id"/>

<asp:BoundFieldDataField="FirstName"HeaderText="FirstName"SortExpression="FirstName"/>

<asp:BoundFieldDataField="City"HeaderText="City"SortExpression="City"/>

</Columns>

<EditRowStyleBackColor="#2461BF"/>

<FooterStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<HeaderStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<PagerStyleBackColor="#2461BF"ForeColor="White"HorizontalAlign="Center"/>

<RowStyleBackColor="#EFF3FB"/>

<SelectedRowStyleBackColor="#D1DDF1"Font-Bold="True"ForeColor="#333333"/>

<SortedAscendingCellStyleBackColor="#F5F7FB"/>

<SortedAscendingHeaderStyleBackColor="#6D95E1"/>

<SortedDescendingCellStyleBackColor="#E9EBEF"/>

<SortedDescendingHeaderStyleBackColor="#4870BE"/>

</asp:GridView>

<asp:SqlDataSourceID="SqlDataSource1"runat="server"ConnectionString="<%$ ConnectionStrings:SYCSConnectionString %>"SelectCommand="SELECT [Id], [FirstName], [City] FROM [tblEmployee]"></asp:SqlDataSource>

<br/>

<asp:DetailsViewID="DetailsView1"runat="server"AutoGenerateRows="False"CellPadding="4"DataKeyNames="Id"DataSourceID="SqlDataSource2"ForeColor="#333333"GridLines="None"Height="50px"Width="125px">

<AlternatingRowStyleBackColor="White"/>

<CommandRowStyleBackColor="#D1DDF1"Font-Bold="True"/>

<EditRowStyleBackColor="#2461BF"/>

<FieldHeaderStyleBackColor="#DEE8F5"Font-Bold="True"/>

<Fields>

<asp:BoundFieldDataField="Id"HeaderText="Id"InsertVisible="False"ReadOnly="True"SortExpression="Id"/>

<asp:BoundFieldDataField="FirstName"HeaderText="FirstName"SortExpression="FirstName"/>

<asp:BoundFieldDataField="LastName"HeaderText="LastName"SortExpression="LastName"/>

<asp:BoundFieldDataField="City"HeaderText="City"SortExpression="City"/>

<asp:BoundFieldDataField="Gender"HeaderText="Gender"SortExpression="Gender"/>

<asp:BoundFieldDataField="DateOfBirth"HeaderText="DateOfBirth"SortExpression="DateOfBirth"/>

<asp:BoundFieldDataField="Country"HeaderText="Country"SortExpression="Country"/>

<asp:BoundFieldDataField="Salary"HeaderText="Salary"SortExpression="Salary"/>

<asp:BoundFieldDataField="DateOfJoining"HeaderText="DateOfJoining"SortExpression="DateOfJoining"/>

<asp:BoundFieldDataField="MaritalStatus"HeaderText="MaritalStatus"SortExpression="MaritalStatus"/>

</Fields>

<FooterStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<HeaderStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<PagerStyleBackColor="#2461BF"ForeColor="White"HorizontalAlign="Center"/>

<RowStyleBackColor="#EFF3FB"/>

</asp:DetailsView>

<asp:SqlDataSourceID="SqlDataSource2"runat="server"ConnectionString="<%$ ConnectionStrings:SYCSConnectionString %>"SelectCommand="SELECT DISTINCT \* FROM [tblEmployee] WHERE ([Id] = @Id)">

<SelectParameters>

<asp:ControlParameterControlID="GridView1"Name="Id"PropertyName="SelectedValue"Type="Int32"/>

</SelectParameters>

</asp:SqlDataSource>

</div>

</form>

</body>

</html>

**DetailsView.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace DataBinding

{

publicpartialclassDetailsView : System.Web.UI.Page

{

protectedvoid Page\_PreRender(object sender, EventArgs e)

{

if (GridView1.SelectedRow == null)

{

DetailsView1.Visible = false;

}

else

{

DetailsView1.Visible = true;

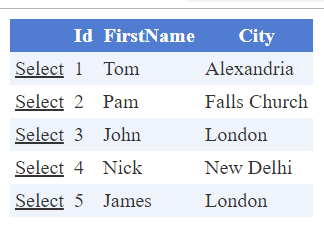
}

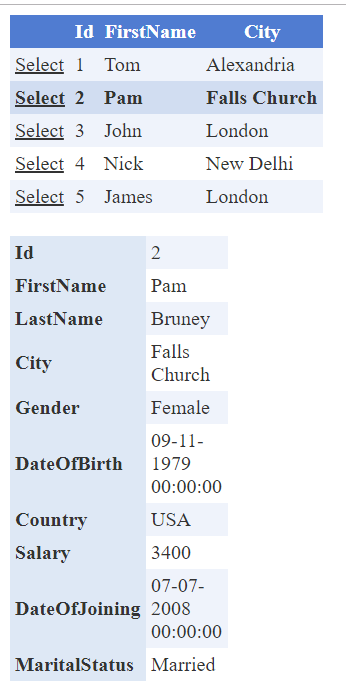
}

}

}

**Output:**

****

****

1. **FormView Control**

**Source Code:**

**FormView.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="FormView.aspx.cs"Inherits="DataBinding.FormView"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:GridViewID="GridView1"runat="server"AutoGenerateColumns="False"CellPadding="4"DataKeyNames="Id"DataSourceID="SqlDataSource1"ForeColor="#333333"GridLines="None"PageSize="3">

<AlternatingRowStyleBackColor="White"/>

<Columns>

<asp:CommandFieldShowSelectButton="True"/>

<asp:BoundFieldDataField="Id"HeaderText="Id"InsertVisible="False"ReadOnly="True"SortExpression="Id"/>

<asp:BoundFieldDataField="FirstName"HeaderText="FirstName"SortExpression="FirstName"/>

<asp:BoundFieldDataField="City"HeaderText="City"SortExpression="City"/>

</Columns>

<EditRowStyleBackColor="#2461BF"/>

<FooterStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<HeaderStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<PagerStyleBackColor="#2461BF"ForeColor="White"HorizontalAlign="Center"/>

<RowStyleBackColor="#EFF3FB"/>

<SelectedRowStyleBackColor="#D1DDF1"Font-Bold="True"ForeColor="#333333"/>

<SortedAscendingCellStyleBackColor="#F5F7FB"/>

<SortedAscendingHeaderStyleBackColor="#6D95E1"/>

<SortedDescendingCellStyleBackColor="#E9EBEF"/>

<SortedDescendingHeaderStyleBackColor="#4870BE"/>

</asp:GridView>

<asp:SqlDataSourceID="SqlDataSource1"runat="server"ConnectionString="<%$ ConnectionStrings:SYCSConnectionString %>"SelectCommand="SELECT [Id], [FirstName], [City] FROM [tblEmployee]"></asp:SqlDataSource>

<br/>

<asp:FormViewID="FormView1"runat="server"CellPadding="4"DataKeyNames="Id"DataSourceID="SqlDataSource2"ForeColor="#333333">

<EditItemTemplate>

Id:

<asp:LabelID="IdLabel1"runat="server"Text='<%# Eval("Id") %>'/>

<br/>

FirstName:

<asp:TextBoxID="FirstNameTextBox"runat="server"Text='<%# Bind("FirstName") %>'/>

<br/>

LastName:

<asp:TextBoxID="LastNameTextBox"runat="server"Text='<%# Bind("LastName") %>'/>

<br/>

City:

<asp:TextBoxID="CityTextBox"runat="server"Text='<%# Bind("City") %>'/>

<br/>

Gender:

<asp:TextBoxID="GenderTextBox"runat="server"Text='<%# Bind("Gender") %>'/>

<br/>

DateOfBirth:

<asp:TextBoxID="DateOfBirthTextBox"runat="server"Text='<%# Bind("DateOfBirth") %>'/>

<br/>

Country:

<asp:TextBoxID="CountryTextBox"runat="server"Text='<%# Bind("Country") %>'/>

<br/>

Salary:

<asp:TextBoxID="SalaryTextBox"runat="server"Text='<%# Bind("Salary") %>'/>

<br/>

DateOfJoining:

<asp:TextBoxID="DateOfJoiningTextBox"runat="server"Text='<%# Bind("DateOfJoining") %>'/>

<br/>

MaritalStatus:

<asp:TextBoxID="MaritalStatusTextBox"runat="server"Text='<%# Bind("MaritalStatus") %>'/>

<br/>

<asp:LinkButtonID="UpdateButton"runat="server"CausesValidation="True"CommandName="Update"Text="Update"/>

&nbsp;<asp:LinkButtonID="UpdateCancelButton"runat="server"CausesValidation="False"CommandName="Cancel"Text="Cancel"/>

</EditItemTemplate>

<EditRowStyleBackColor="#2461BF"/>

<FooterStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<HeaderStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<InsertItemTemplate>

FirstName:

<asp:TextBoxID="FirstNameTextBox"runat="server"Text='<%# Bind("FirstName") %>'/>

<br/>

LastName:

<asp:TextBoxID="LastNameTextBox"runat="server"Text='<%# Bind("LastName") %>'/>

<br/>

City:

<asp:TextBoxID="CityTextBox"runat="server"Text='<%# Bind("City") %>'/>

<br/>

Gender:

<asp:TextBoxID="GenderTextBox"runat="server"Text='<%# Bind("Gender") %>'/>

<br/>

DateOfBirth:

<asp:TextBoxID="DateOfBirthTextBox"runat="server"Text='<%# Bind("DateOfBirth") %>'/>

<br/>

Country:

<asp:TextBoxID="CountryTextBox"runat="server"Text='<%# Bind("Country") %>'/>

<br/>

Salary:

<asp:TextBoxID="SalaryTextBox"runat="server"Text='<%# Bind("Salary") %>'/>

<br/>

DateOfJoining:

<asp:TextBoxID="DateOfJoiningTextBox"runat="server"Text='<%# Bind("DateOfJoining") %>'/>

<br/>

MaritalStatus:

<asp:TextBoxID="MaritalStatusTextBox"runat="server"Text='<%# Bind("MaritalStatus") %>'/>

<br/>

<asp:LinkButtonID="InsertButton"runat="server"CausesValidation="True"CommandName="Insert"Text="Insert"/>

&nbsp;<asp:LinkButtonID="InsertCancelButton"runat="server"CausesValidation="False"CommandName="Cancel"Text="Cancel"/>

</InsertItemTemplate>

<ItemTemplate>

Id:

<asp:LabelID="IdLabel"runat="server"Text='<%# Eval("Id") %>'/>

<br/>

FirstName:

<asp:LabelID="FirstNameLabel"runat="server"Text='<%# Bind("FirstName") %>'/>

<br/>

LastName:

<asp:LabelID="LastNameLabel"runat="server"Text='<%# Bind("LastName") %>'/>

<br/>

City:

<asp:LabelID="CityLabel"runat="server"Text='<%# Bind("City") %>'/>

<br/>

Gender:

<asp:LabelID="GenderLabel"runat="server"Text='<%# Bind("Gender") %>'/>

<br/>

DateOfBirth:

<asp:LabelID="DateOfBirthLabel"runat="server"Text='<%# Bind("DateOfBirth") %>'/>

<br/>

Country:

<asp:LabelID="CountryLabel"runat="server"Text='<%# Bind("Country") %>'/>

<br/>

Salary:

<asp:LabelID="SalaryLabel"runat="server"Text='<%# Bind("Salary") %>'/>

<br/>

DateOfJoining:

<asp:LabelID="DateOfJoiningLabel"runat="server"Text='<%# Bind("DateOfJoining") %>'/>

<br/>

MaritalStatus:

<asp:LabelID="MaritalStatusLabel"runat="server"Text='<%# Bind("MaritalStatus") %>'/>

<br/>

</ItemTemplate>

<PagerStyleBackColor="#2461BF"ForeColor="White"HorizontalAlign="Center"/>

<RowStyleBackColor="#EFF3FB"/>

</asp:FormView>

<asp:SqlDataSourceID="SqlDataSource2"runat="server"ConnectionString="<%$ ConnectionStrings:SYCSConnectionString %>"SelectCommand="SELECT DISTINCT \* FROM [tblEmployee] WHERE ([Id] = @Id)">

<SelectParameters>

<asp:ControlParameterControlID="GridView1"Name="Id"PropertyName="SelectedValue"Type="Int32"/>

</SelectParameters>

</asp:SqlDataSource>

</div>

</form>

</body>

</html>

**FormView.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace DataBinding

{

publicpartialclassFormView : System.Web.UI.Page

{

protectedvoid Page\_PreRender(object sender, EventArgs e)

{

if (GridView1.SelectedRow == null)

{

FormView1.Visible = false;

}

else

{

FormView1.Visible = true;

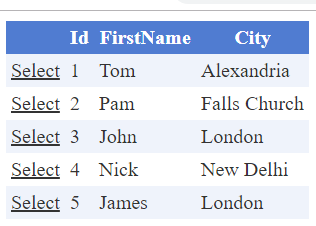
}

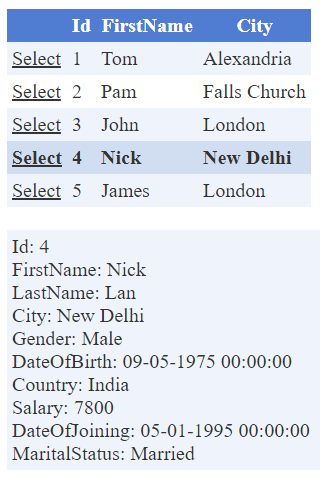
}

}

}

**Output:**

****

****

**Practical 6**

**Aim: Creating and Consuming Web Services(Design a Calculator WebApplication by using Addition/Subtraction/Division/Multiplication)**

**Source Code:**

**WebServiceCalculator.asmx**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.Services;

namespace WebApplication1

{

[WebService(Namespace = "http://tempuri.org/")]

[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1\_1)]

[System.ComponentModel.ToolboxItem(false)]

publicclassWebServiceCalculator : System.Web.Services.WebService

{

[WebMethod]

publicint Add(int firstNumber, int secondNumber)

{

return firstNumber + secondNumber;

}

publicint Sub(int firstNumber, int secondNumber)

{

return firstNumber - secondNumber;

}

publicint Mul(int firstNumber, int secondNumber)

{

return firstNumber \* secondNumber;

}

publicint Div(int firstNumber, int secondNumber)

{

return firstNumber / secondNumber;

}

}

}

**WebService.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Calculator.aspx.cs"Inherits="CalculatorWebApplication.Calculator"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.auto-style1 {

font-weight: bold;

text-align: right;

}

.auto-style2 {

text-align: right;

}

.auto-style3 {

text-align: left;

}

</style>

</head>

<body>

<formid="form1"runat="server">

<div>

<tablestyle="font-family: Arial">

<tr>

<tdclass="auto-style1">

First Number:</td>

<tdclass="auto-style3">

<asp:TextBoxID="txtFirstNumber"runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style2">

<b>Second Number:</b>

</td>

<tdclass="auto-style3">

<asp:TextBoxID="txtSecondNumber"runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style1">

Result:</td>

<tdclass="auto-style3">

<asp:LabelID="lblResult"runat="server"></asp:Label>

</td>

</tr>

<tr>

<tdcolspan="2">

<asp:ButtonID="btnAdd"runat="server"Text="Add"

OnClick="btnAdd\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"Width="140px"/>

<asp:ButtonID="btnSub"runat="server"Text="Subtract"

OnClick="btnSub\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"Width="140px"/>

<br/>

<asp:ButtonID="btnMul"runat="server"Text="Multiply"

OnClick="btnMul\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"Width="140px"/>

<asp:ButtonID="btnDiv"runat="server"Text="Divide"

OnClick="btnDiv\_Click"BackColor="#33CCFF"BorderStyle="None"Font-Bold="True"ForeColor="White"Width="140px"/>

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

**WebService.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace CalculatorWebApplication

{

publicpartialclassCalculator : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid btnAdd\_Click(object sender, EventArgs e)

{

CalculatorService.WebServiceCalculatorSoapClient client = new CalculatorService.WebServiceCalculatorSoapClient();

int result = client.Add(Convert.ToInt32(txtFirstNumber.Text),Convert.ToInt32(txtSecondNumber.Text));

lblResult.Text = result.ToString();

}

protectedvoid btnSub\_Click(object sender, EventArgs e)

{

CalculatorService.WebServiceCalculatorSoapClient client = new CalculatorService.WebServiceCalculatorSoapClient();

int result = client.Sub(Convert.ToInt32(txtFirstNumber.Text), Convert.ToInt32(txtSecondNumber.Text));

lblResult.Text = result.ToString();

}

protectedvoid btnMul\_Click(object sender, EventArgs e)

{

CalculatorService.WebServiceCalculatorSoapClient client = new CalculatorService.WebServiceCalculatorSoapClient();

int result = client.Mul(Convert.ToInt32(txtFirstNumber.Text), Convert.ToInt32(txtSecondNumber.Text));

lblResult.Text = result.ToString();

}

protectedvoid btnDiv\_Click(object sender, EventArgs e)

{

CalculatorService.WebServiceCalculatorSoapClient client = new CalculatorService.WebServiceCalculatorSoapClient();

int result = client.Div(Convert.ToInt32(txtFirstNumber.Text), Convert.ToInt32(txtSecondNumber.Text));

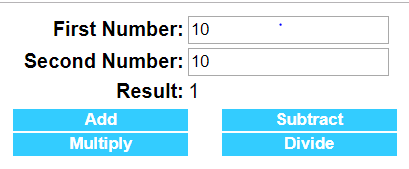
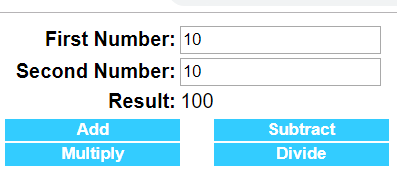
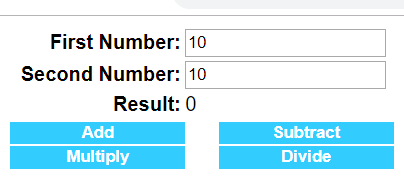
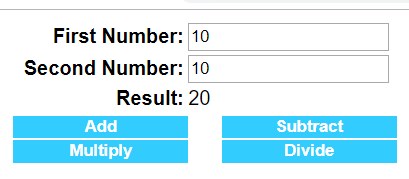
lblResult.Text = result.ToString();

}

}

}

**Output:**

****

**Practical 7**

**Aim: LINQ in ASP.NET**

**Source Code:**

**Sample.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Sample.aspx.cs"Inherits="LINQ.Sample"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:GridViewID="GridView1"runat="server"CellPadding="4"ForeColor="#333333"GridLines="None">

<AlternatingRowStyleBackColor="White"/>

<EditRowStyleBackColor="#2461BF"/>

<FooterStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<HeaderStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<PagerStyleBackColor="#2461BF"ForeColor="White"HorizontalAlign="Center"/>

<RowStyleBackColor="#EFF3FB"/>

<SelectedRowStyleBackColor="#D1DDF1"Font-Bold="True"ForeColor="#333333"/>

<SortedAscendingCellStyleBackColor="#F5F7FB"/>

<SortedAscendingHeaderStyleBackColor="#6D95E1"/>

<SortedDescendingCellStyleBackColor="#E9EBEF"/>

<SortedDescendingHeaderStyleBackColor="#4870BE"/>

</asp:GridView>

</div>

</form>

</body>

</html>

**Sample.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace LINQ

{

publicpartialclassSample : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

LINQDataContext dataContext = new LINQDataContext();

GridView1.DataSource = from student in dataContext.Students where student.Gender == "Male"select student;

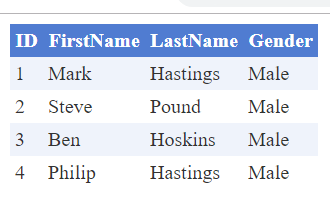
GridView1.DataBind();

}

}

}

**Output:**

****

**Practical 8**

**Aim: Caching in ASP.NET**

1. **Output Caching**

**Source Code:**

**OutputCaching.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="OutputCaching.aspx.cs"Inherits="Caching.OutputCaching"%>

<%@OutputCacheDuration="30"VaryByParam="None"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<p>

<asp:GridViewID="GridView1"runat="server"CellPadding="4"ForeColor="#333333"GridLines="None">

<AlternatingRowStyleBackColor="White"/>

<EditRowStyleBackColor="#2461BF"/>

<FooterStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<HeaderStyleBackColor="#507CD1"Font-Bold="True"ForeColor="White"/>

<PagerStyleBackColor="#2461BF"ForeColor="White"HorizontalAlign="Center"/>

<RowStyleBackColor="#EFF3FB"/>

<SelectedRowStyleBackColor="#D1DDF1"Font-Bold="True"ForeColor="#333333"/>

<SortedAscendingCellStyleBackColor="#F5F7FB"/>

<SortedAscendingHeaderStyleBackColor="#6D95E1"/>

<SortedDescendingCellStyleBackColor="#E9EBEF"/>

<SortedDescendingHeaderStyleBackColor="#4870BE"/>

</asp:GridView>

</p>

<p>

<strong>Server Time:<asp:LabelID="Label1"runat="server"Text=""></asp:Label></strong>

</p>

<p><strong>

Client Time: <script>document.write(Date());</script>

</strong>

</p>

</div>

</form>

</body>

</html>

**OutputCaching.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Configuration;

using System.Data;

using System.Data.SqlClient;

namespace Caching

{

publicpartialclassOutputCaching : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

string CS = ConfigurationManager.ConnectionStrings["SYCS"].ConnectionString;

SqlConnection con = new SqlConnection(CS);

SqlDataAdapter da = new SqlDataAdapter("spGetProducts", con);

da.SelectCommand.CommandType = CommandType.StoredProcedure;

DataSet DS = new DataSet();

da.Fill(DS);

GridView1.DataSource = DS;

GridView1.DataBind();

Label1.Text = DateTime.Now.AddSeconds(30).ToString();

}

}

}

**Web.config**

<?xmlversion="1.0"encoding="utf-8"?>

<!--

For more information on how to configure your ASP.NET application, please visit

https://go.microsoft.com/fwlink/?LinkId=169433

-->

<configuration>

<connectionStrings>

<addname="SYCS"connectionString="Data Source=LAPTOP\SQLEXPRESS;Initial Catalog=SYCS;Integrated Security=True"providerName="System.Data.SqlClient"/>

</connectionStrings>

<system.web>

<compilationdebug="true"targetFramework="4.6.1"/>

<httpRuntimetargetFramework="4.6.1"/>

</system.web>

<system.codedom>

<compilers>

<compilerlanguage="c#;cs;csharp"extension=".cs"

type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35"

warningLevel="4"compilerOptions="/langversion:default /nowarn:1659;1699;1701"/>

<compilerlanguage="vb;vbs;visualbasic;vbscript"extension=".vb"

type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35"

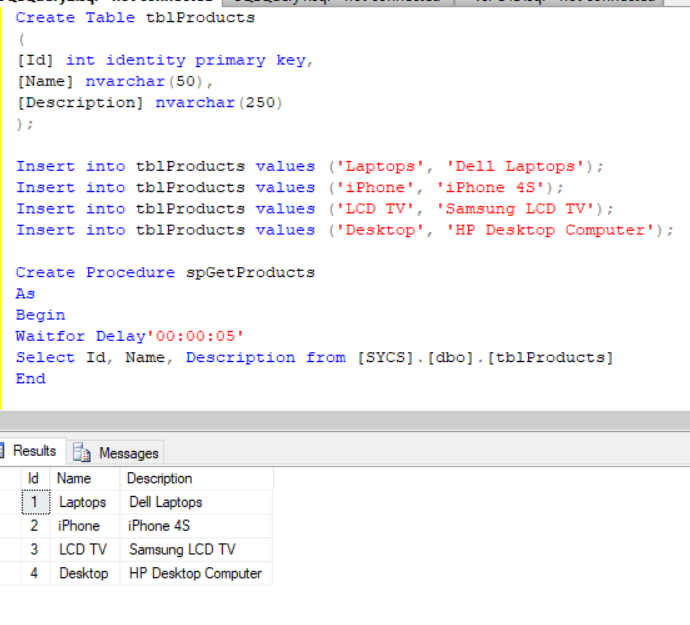
warningLevel="4"compilerOptions="/langversion:default /nowarn:41008 /define:\_MYTYPE=\&quot;Web\&quot; /optionInfer+"/>

</compilers>

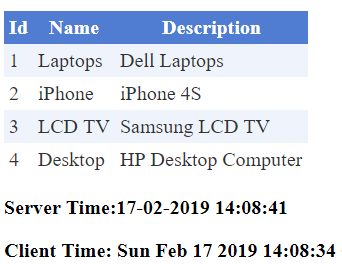
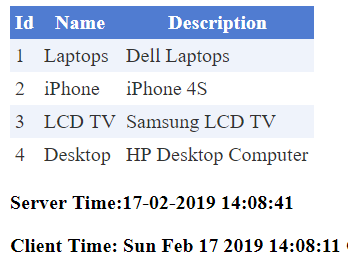
</system.codedom>

</configuration>

**SQL Server Management Studio:**

****

**Output:**

****

1. **Object Caching**

**Source Code:**

**ObjectCache.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="WebForm1.aspx.cs"Inherits="Caching.WebForm1"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:ButtonID="Button1"runat="server"Text="Click Here"BackColor="#33ccff"ForeColor="White"Font-Bold="true"BorderStyle="None"OnClick="Button1\_Click"/>

<p>

&nbsp;</p>

<asp:LabelID="lblinfo"runat="server"></asp:Label>

</div>

</form>

</body>

</html>

**ObjectCache.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Caching

{

publicpartialclassWebForm1 : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

if (this.IsPostBack)

{

lblinfo.Text = "page posted back.<br/>";

}

else

{

lblinfo.Text = "page created.<br/>";

}

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

if (Cache["testitem"] == null)

{

lblinfo.Text += "creating test item.<br/>";

DateTime testitem = DateTime.Now;

lblinfo.Text += "storing test item in cache";

lblinfo.Text += "for 30 second.<br/>";

Cache.Insert("testitem", testitem, null, DateTime.Now.AddSeconds(30), TimeSpan.Zero);

}

else

{

lblinfo.Text += "retrieving test item.<br/>";

DateTime testItem = (DateTime)Cache["testitem"];

lblinfo.Text += "testitem is:" + testItem.ToString();

lblinfo.Text += "<br/>";

}

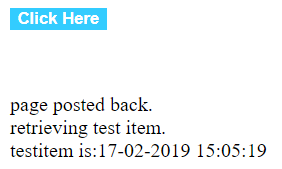
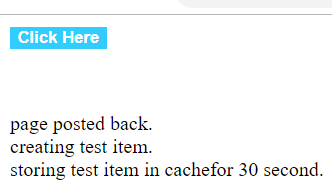
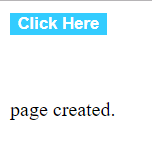
lblinfo.Text += "<br/>";

}

}

}

**Output:**

****

**Practical 9**

**Aim: Navigation Controls in ASP.NET**

1. **Menu Control**

**Source Code:**

**Menu.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Menu.aspx.cs"Inherits="NavigationControls.Menu"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:MenuID="Menu1"runat="server"DisappearAfter="3000"Orientation="Horizontal"DynamicHoverStyle-BackColor="Red"DynamicHoverStyle-ForeColor="White"StaticHoverStyle-BackColor="Red"StaticHoverStyle-ForeColor="White">

<Items>

<asp:MenuItemNavigateUrl="~/Home.aspx"Text="Home"Value="Home"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/Employee.aspx"Text="Employee"Value="Employee">

<asp:MenuItemNavigateUrl="~/UploadResume.aspx"Text="Upload Resume"Value="Upload Resume"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/EditResume.aspx"Text="Edit Resume"Value="Edit Resume"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/ViewResume.aspx"Text="View Resume"Value="View Resume"></asp:MenuItem>

</asp:MenuItem>

<asp:MenuItemNavigateUrl="~/Employer.aspx"Text="Employer"Value="Employer">

<asp:MenuItemNavigateUrl="~/UploadJob.aspx"Text="Upload Job"Value="Upload Job"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/EditJob.aspx"Text="Edit Job"Value="Edit Job"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/ViewJob.aspx"Text="View Job"Value="View Job"></asp:MenuItem>

</asp:MenuItem>

<asp:MenuItemNavigateUrl="~/Admin.aspx"Text="Admin"Value="Admin">

<asp:MenuItemNavigateUrl="~/AddUser.aspx"Text="Add User"Value="Add User"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/EditUser.aspx"Text="Edit User"Value="Edit User"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/ViewUser.aspx"Text="View User"Value="View User"></asp:MenuItem>

</asp:MenuItem>

</Items>

</asp:Menu>

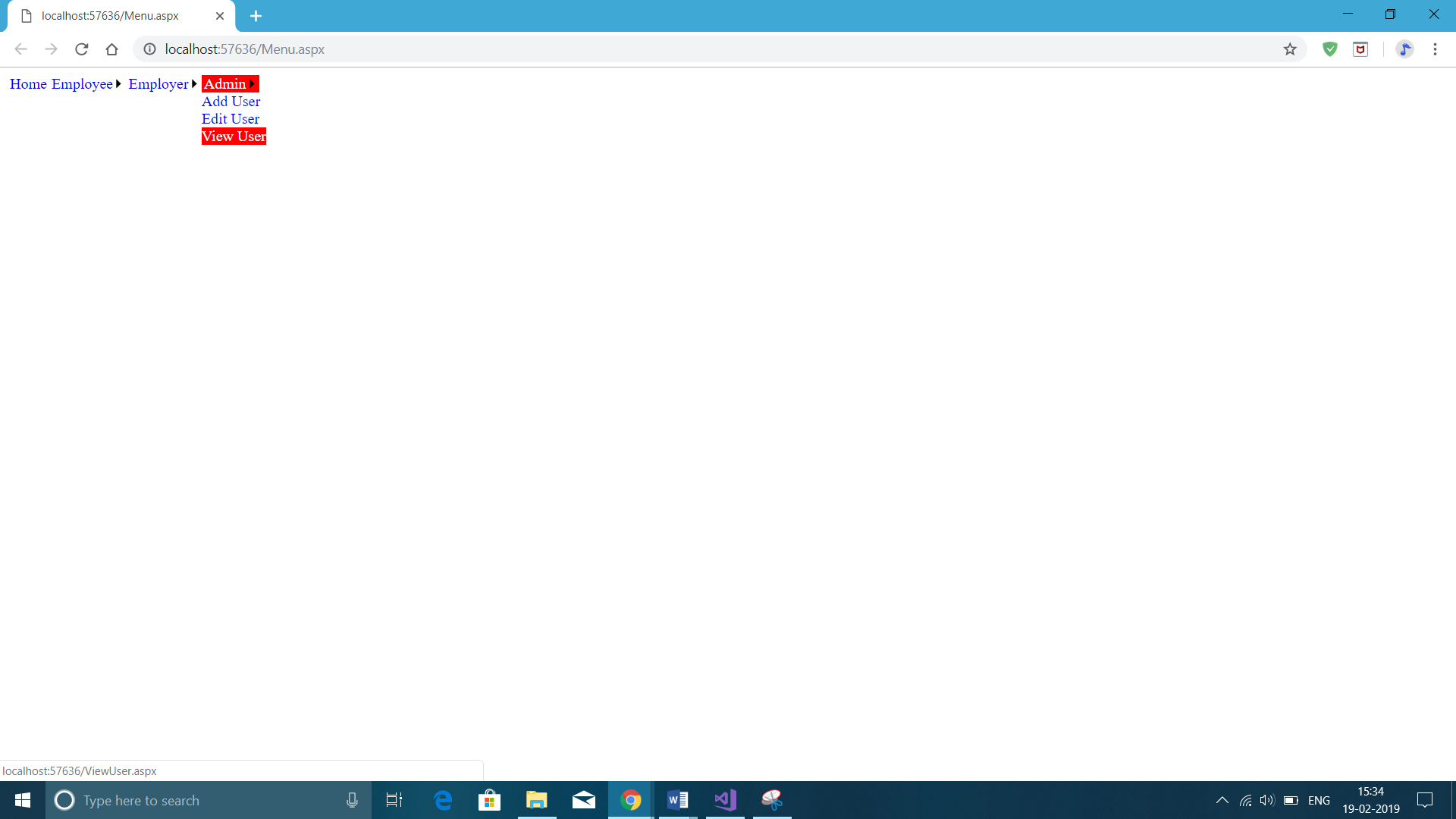
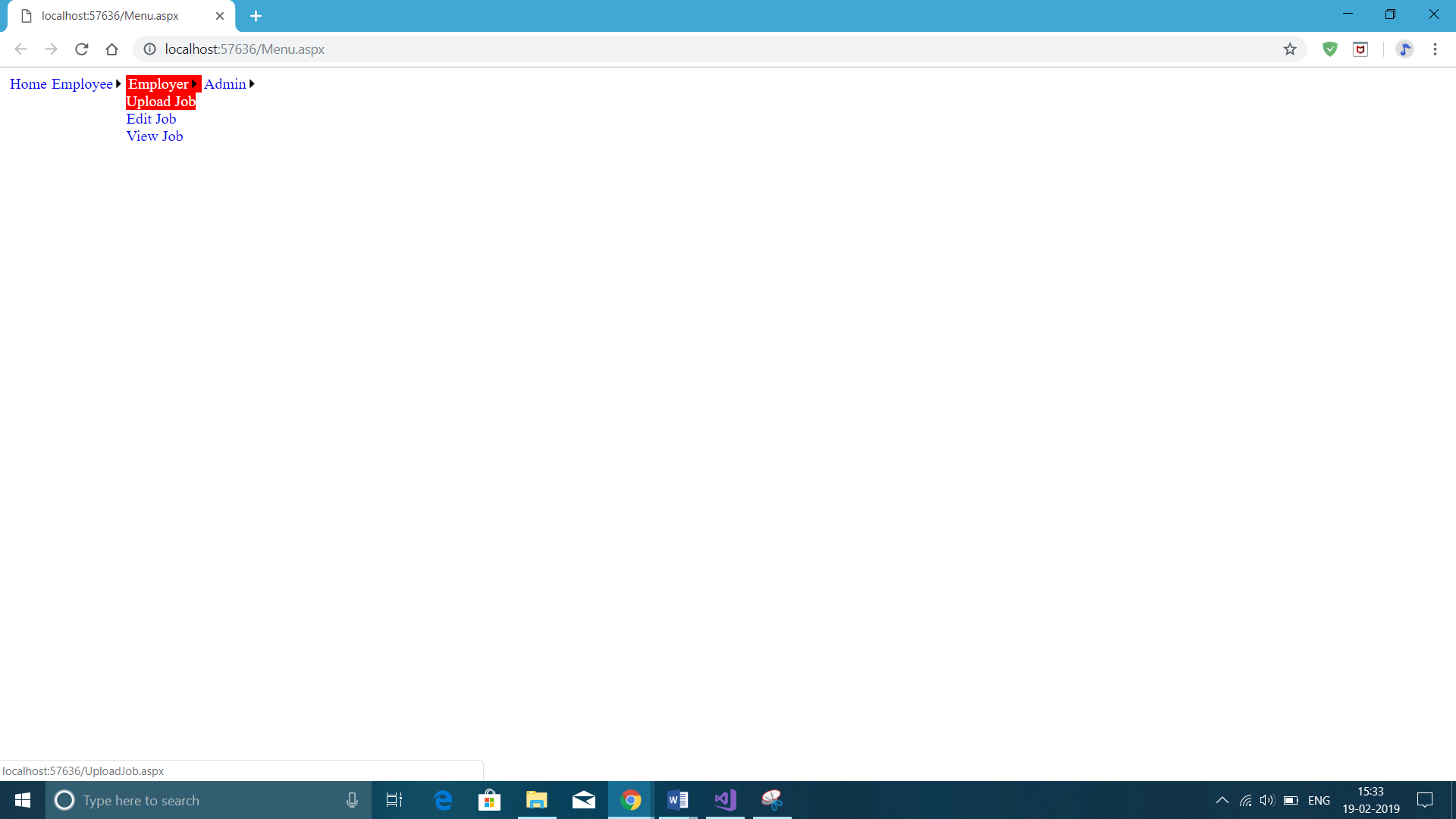
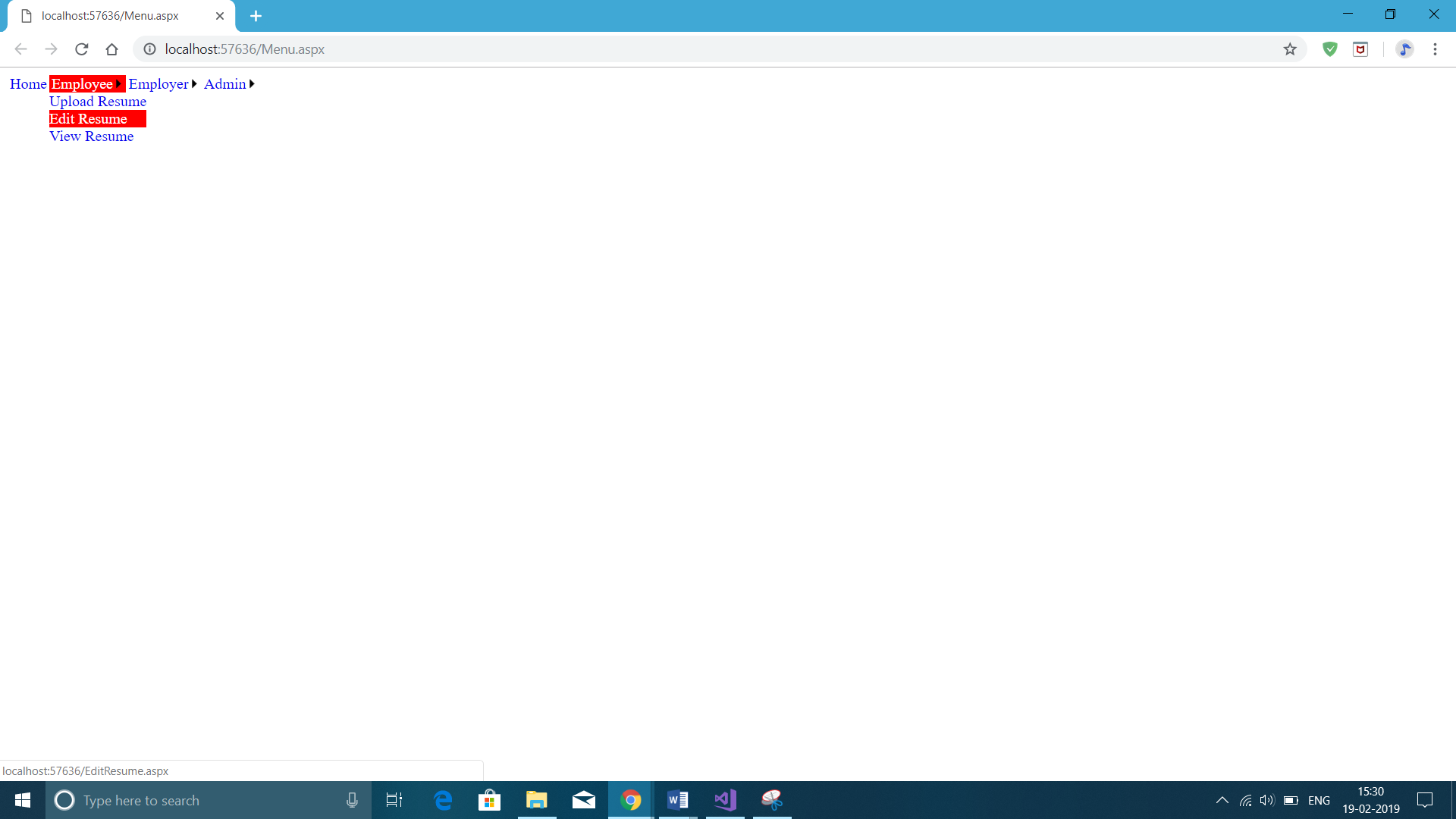
</div>

</form>

</body>

</html>

**Output:**



1. **TreeViewControl**

**Source Code:**

**TreeView.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="TreeView.aspx.cs"Inherits="NavigationControls.TreeView"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:TreeViewID="TreeView1"runat="server"DisappearAfter="3000"HoverNodeStyle-BackColor="Red"HoverNodeStyle-ForeColor="White"HoverNodeStyle-BorderStyle="None">

<Nodes>

<asp:TreeNodeNavigateUrl="~/Home.aspx"Text="Home"Value="Home"></asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/Employee.aspx"Text="Employee"Value="Employee">

<asp:TreeNodeNavigateUrl="~/UploadResume.aspx"Text="Upload Resume"Value="Upload Resume"></asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/EditResume.aspx"Text="Edit Resume"Value="Edit Resume"></asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/ViewResume.aspx"Text="View Resume"Value="View Resume"></asp:TreeNode>

</asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/Employer.aspx"Text="Employer"Value="Employer">

<asp:TreeNodeNavigateUrl="~/UploadJob.aspx"Text="Upload Job"Value="Upload Job"></asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/EditJob.aspx"Text="Edit Job"Value="Edit Job"></asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/ViewJob.aspx"Text="View Job"Value="View Job"></asp:TreeNode>

</asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/Admin.aspx"Text="Admin"Value="Admin">

<asp:TreeNodeNavigateUrl="~/AddUser.aspx"Text="Add User"Value="Add User"></asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/EditUser.aspx"Text="Edit User"Value="Edit User"></asp:TreeNode>

<asp:TreeNodeNavigateUrl="~/ViewUser.aspx"Text="View User"Value="View User"></asp:TreeNode>

</asp:TreeNode>

</Nodes>

</asp:TreeView>

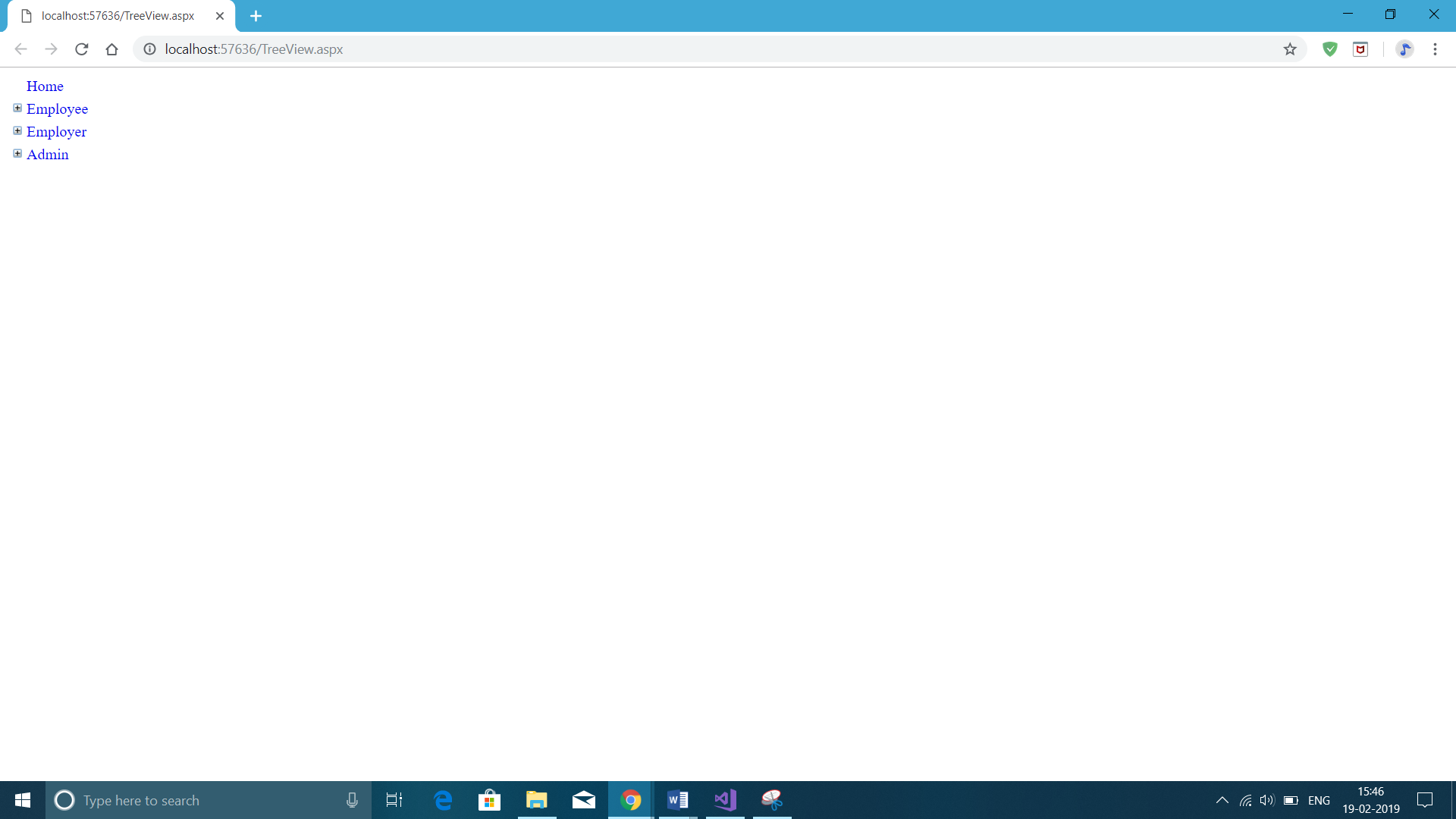
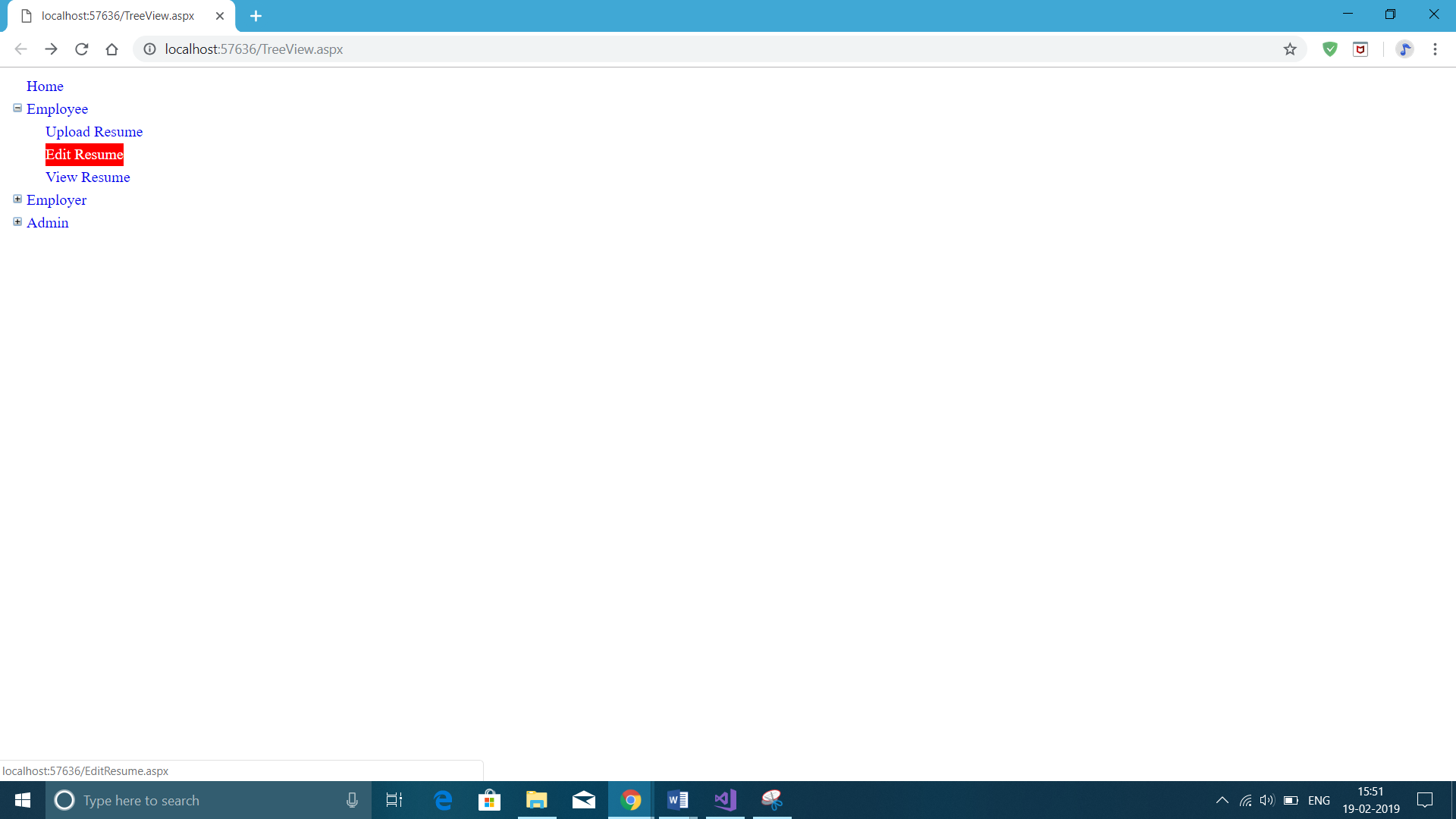
</div>

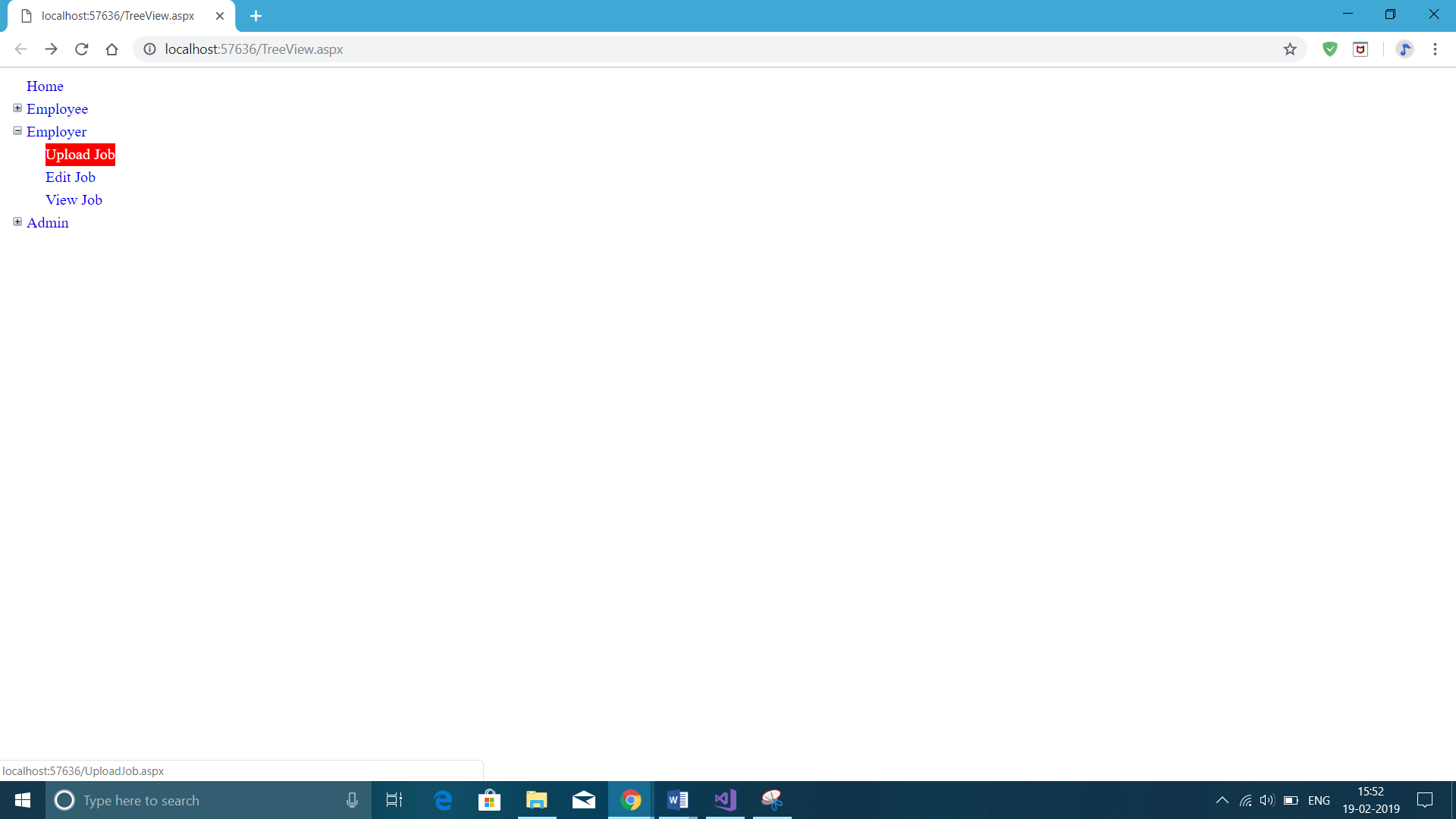
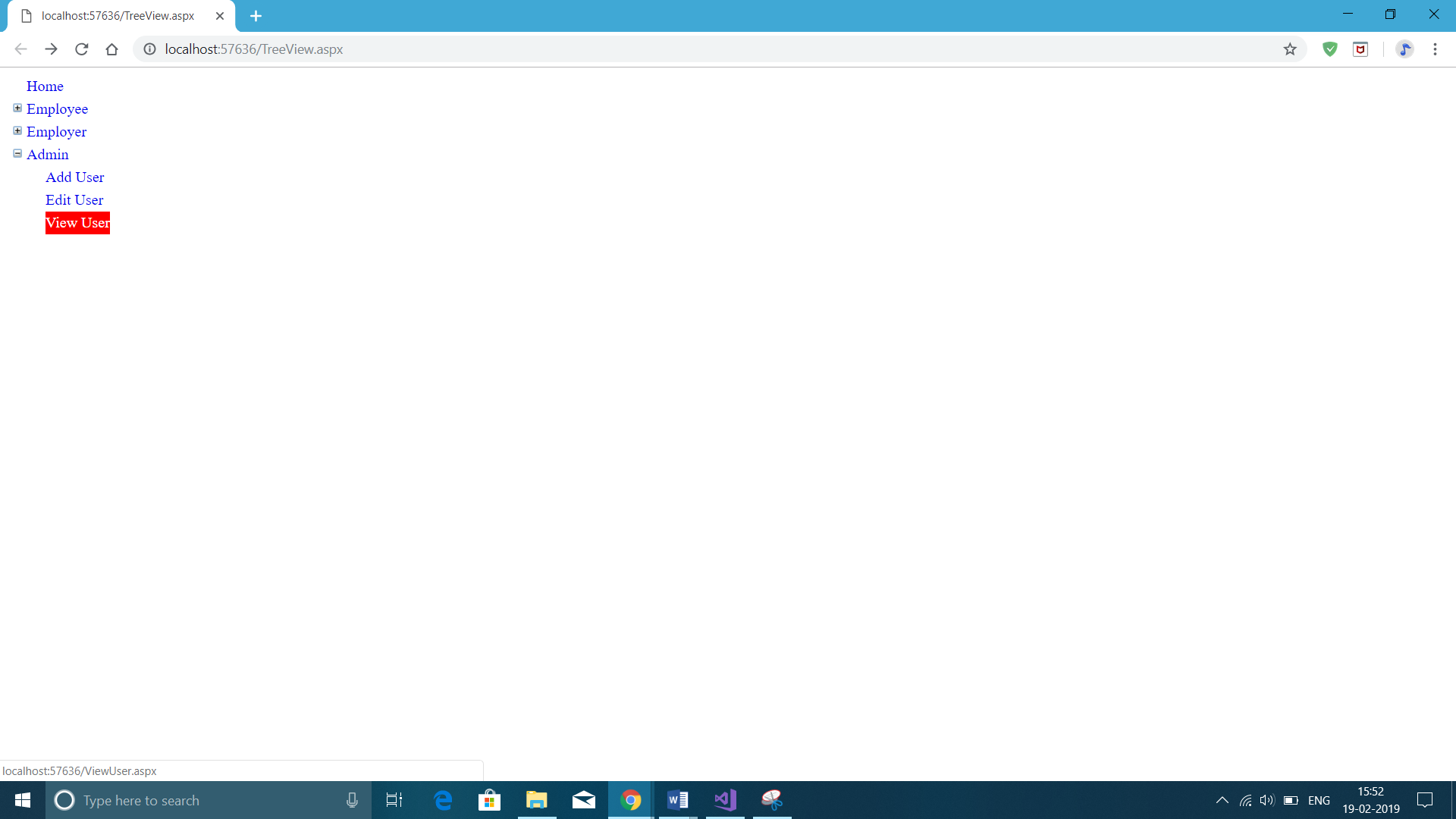
</form>

</body>

</html>

**Output:**

1. **SiteMapPath Control**

**Source Code:**

**SiteMap.aspx**

<?xmlversion="1.0"encoding="utf-8" ?>

<siteMapxmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0">

<siteMapNodeurl="~/Home.aspx"title="Home">

<siteMapNodeurl="~/Employee.aspx"title="Employee">

<siteMapNodeurl="~/UploadResume.aspx"title="Upload Resume"/>

<siteMapNodeurl="~/EditResume.aspx"title="Edit Resume"/>

<siteMapNodeurl="~/ViewResume.aspx"title="View Resume"/>

</siteMapNode>

<siteMapNodeurl="~/Employer.aspx"title="Employer">

<siteMapNodeurl="~/UploadJob.aspx"title="Upload Job"/>

<siteMapNodeurl="~/EditJob.aspx"title="Edit Job"/>

<siteMapNodeurl="~/ViewJob.aspx"title="View Job"/>

</siteMapNode>

<siteMapNodeurl="~/Admin.aspx"title="Admin">

<siteMapNodeurl="~/AddUser.aspx"title="Add User"/>

<siteMapNodeurl="~/EditUser.aspx"title="Edit User"/>

<siteMapNodeurl="~/ViewUser.aspx"title="View User"/>

</siteMapNode>

</siteMapNode>

</siteMap>

**Site1.master**

<%@MasterLanguage="C#"AutoEventWireup="true"CodeFile="~/Site1.Master.cs"Inherits="MasterPage.Site1"%>

<!DOCTYPEhtml>

<html>

<headrunat="server">

<title></title>

<asp:ContentPlaceHolderID="head"runat="server">

</asp:ContentPlaceHolder>

<styletype="text/css">

.auto-style2 {

width: 100%;

}

.auto-style3 {

width: 544px;

height: 247px;

}

.auto-style5 {

height: 247px;

font-size: large;

}

.auto-style6 {

height: 247px;

font-size: large;

text-align: left;

}

.auto-style7 {

font-size: medium;

}

</style>

</head>

<body>

<formid="form1"runat="server">

<divstyle="background-color:aquamarine"><strong>

<asp:SiteMapPathID="SiteMapPath1"runat="server">

</asp:SiteMapPath></strong>

</div>

<div>

<tableclass="auto-style2">

<tr>

<tdclass="auto-style6"style="background-color:greenyellow"valign="top">

<strong>

<asp:MenuID="Menu1"runat="server"DisappearAfter="3000"Orientation="Horizontal"DynamicHoverStyle-BackColor="Red"DynamicHoverStyle-ForeColor="White"StaticHoverStyle-BackColor="Red"StaticHoverStyle-ForeColor="White"CssClass="auto-style7">

<Items>

<asp:MenuItemNavigateUrl="~/Home.aspx"Text="Home"Value="Home">

<asp:MenuItemNavigateUrl="~/Employee.aspx"Text="Employee"Value="Employee">

<asp:MenuItemNavigateUrl="~/UploadResume.aspx"Text="Upload Resume"Value="Upload Resume"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/EditResume.aspx"Text="Edit Resume"Value="Edit Resume"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/ViewResume.aspx"Text="View Resume"Value="View Resume"></asp:MenuItem>

</asp:MenuItem>

<asp:MenuItemNavigateUrl="~/Employer.aspx"Text="Employer"Value="Employer">

<asp:MenuItemNavigateUrl="~/UploadJob.aspx"Text="Upload Job"Value="Upload Job"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/EditJob.aspx"Text="Edit Job"Value="Edit Job"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/ViewJob.aspx"Text="View Job"Value="View Job"></asp:MenuItem>

</asp:MenuItem>

<asp:MenuItemNavigateUrl="~/Admin.aspx"Text="Admin"Value="Admin">

<asp:MenuItemNavigateUrl="~/AddUser.aspx"Text="Add User"Value="Add User"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/EditUser.aspx"Text="Edit User"Value="Edit User"></asp:MenuItem>

<asp:MenuItemNavigateUrl="~/ViewUser.aspx"Text="View User"Value="View User"></asp:MenuItem>

</asp:MenuItem>

</asp:MenuItem>

</Items>

</asp:Menu>

</strong></td>

<tdclass="auto-style3"><asp:ContentPlaceHolderID="ContentPlaceHolder1"runat="server"></asp:ContentPlaceHolder></td>

<tdclass="auto-style5"style="background-color:greenyellow"><strong>Right Panel</strong></td>

</tr>

</table>

</div>

<divstyle="background-color:aquamarine">

<strong>Copyright Reserved</strong>

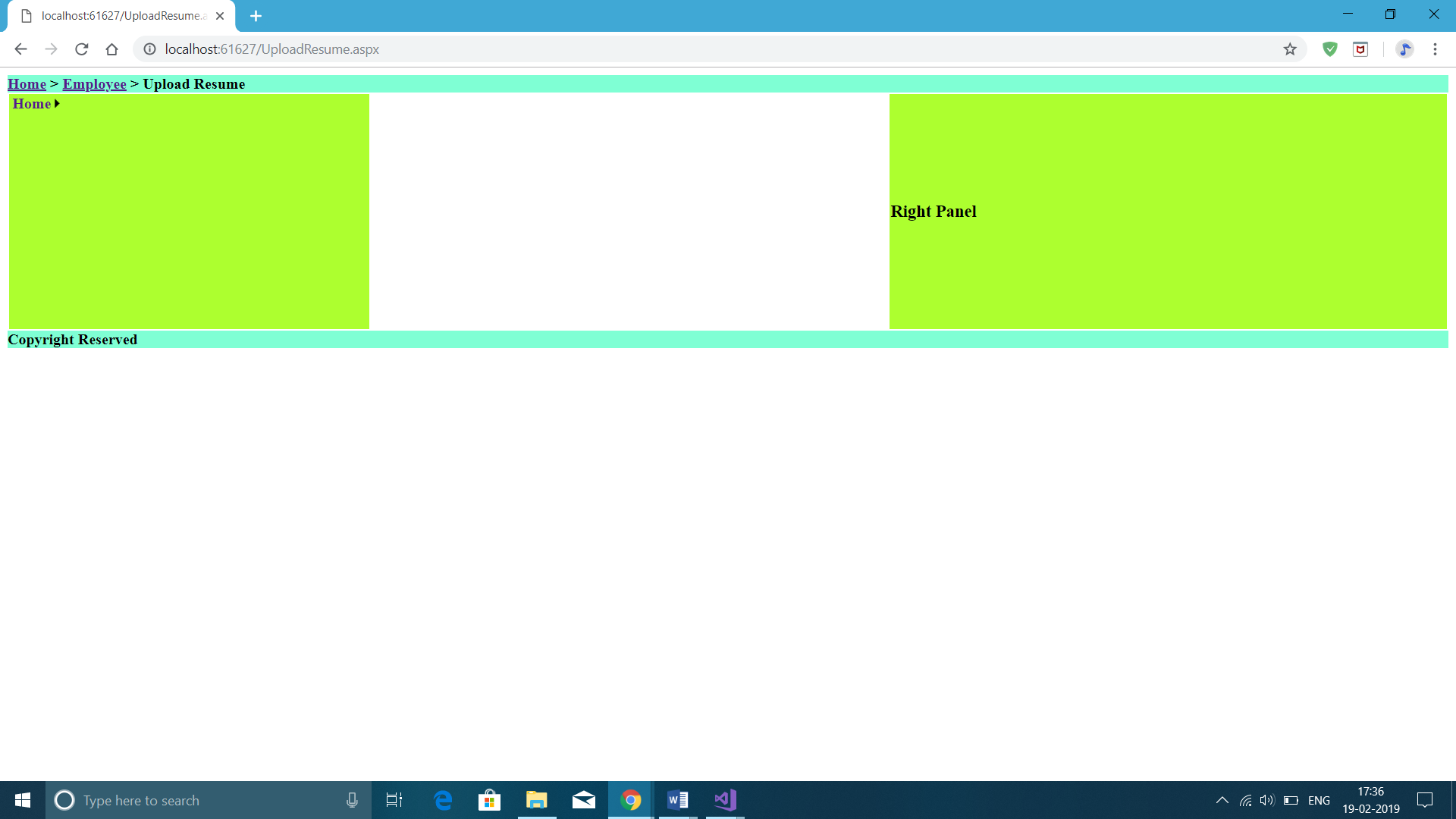
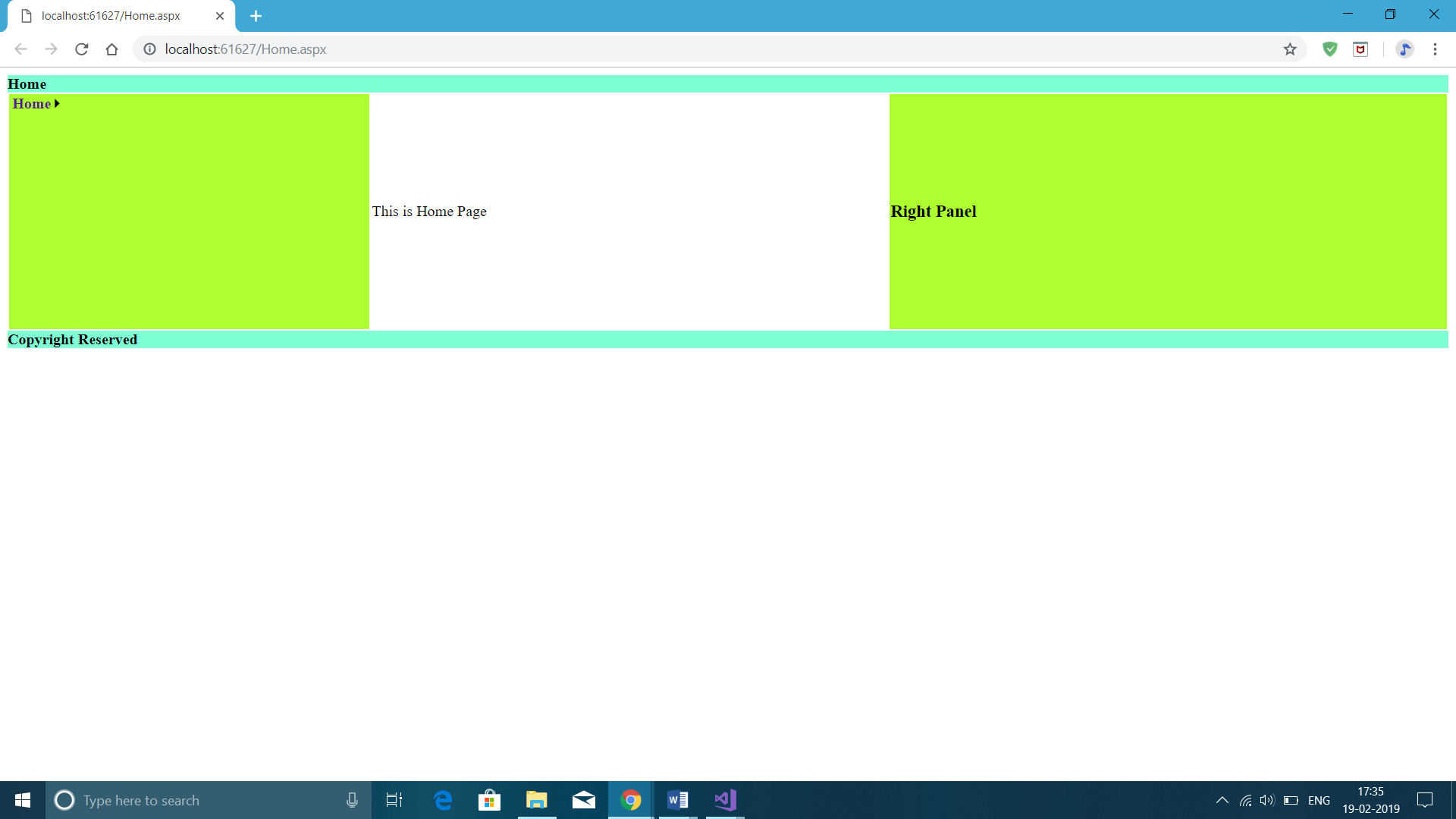
</div>

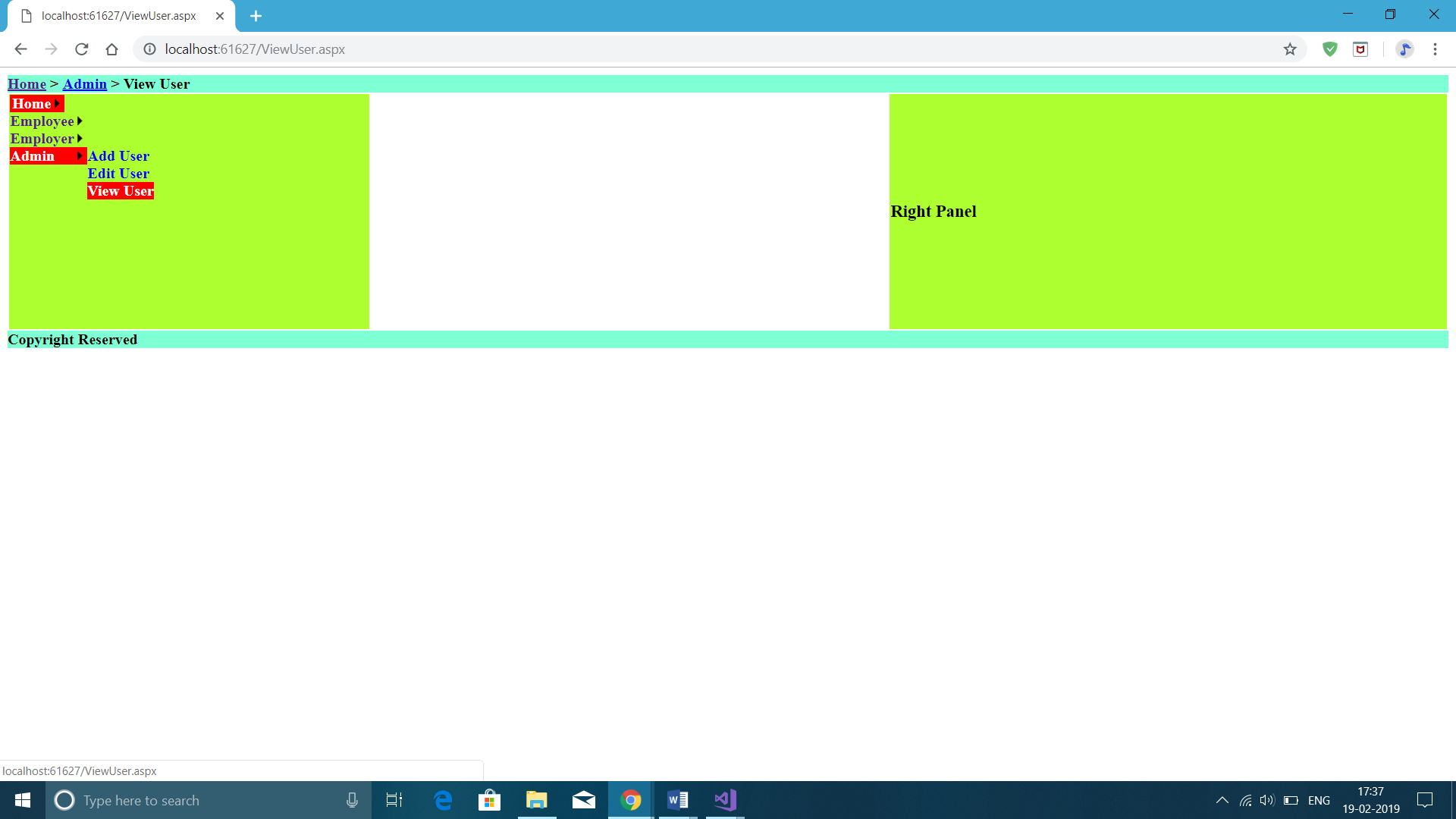
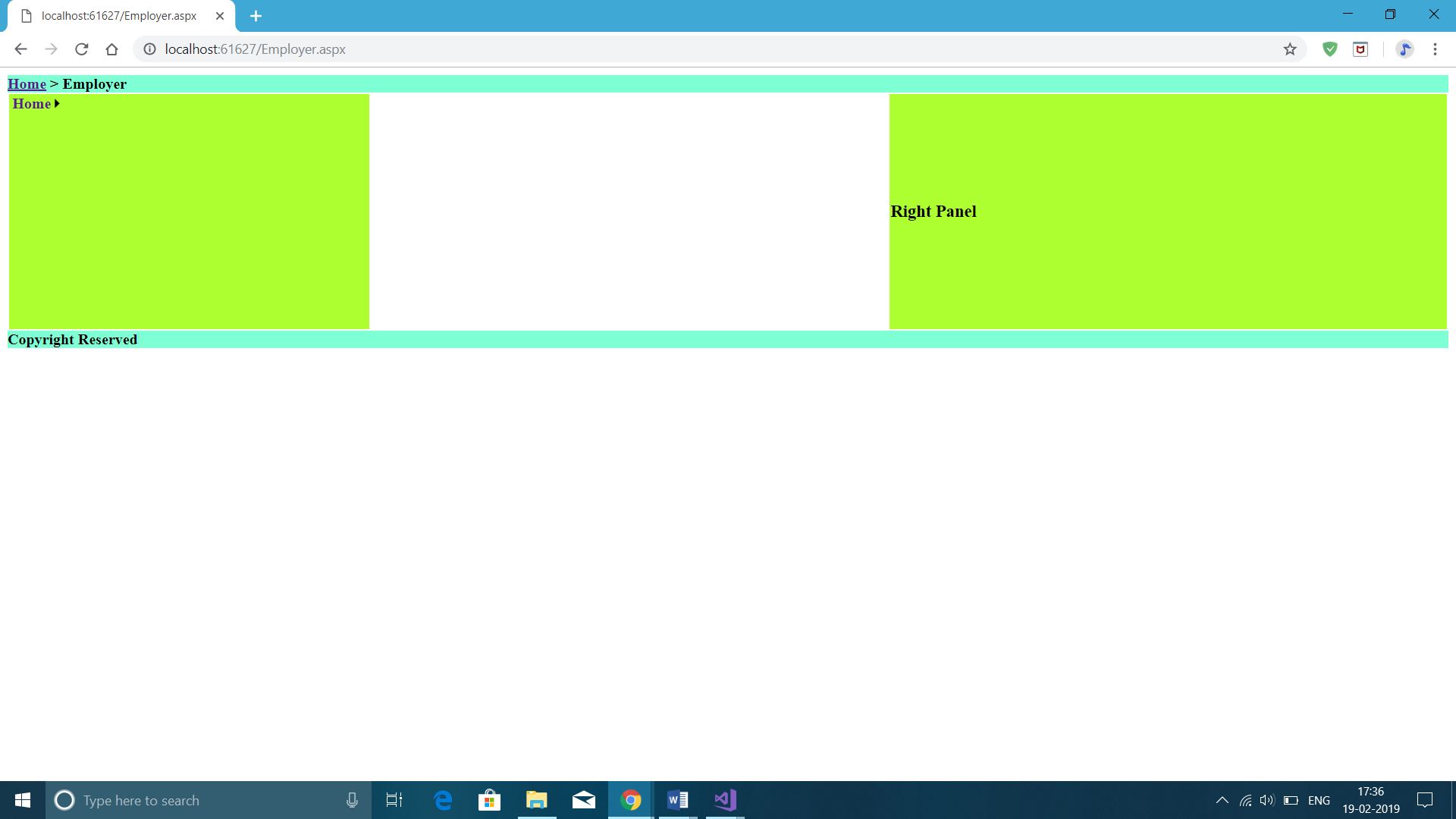
</form>

</body>

</html>

**Output:**





**Practical 10**

**Aim: AJAX Controls in ASP.NET**

1. **UpdatePanel Control**

**Source Code:**

**UpdatePanel.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="UpdatePanel.aspx.cs"Inherits="AjaxControls.UpdatePanel"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

<asp:ScriptManagerID="ScriptManager1"runat="server">

</asp:ScriptManager>

<br/>

<br/>

<asp:UpdatePanelID="UpdatePanel1"runat="server">

<ContentTemplate>

<asp:ButtonID="btnpartial"runat="server"Text="Partial PostBack"

onclick="btnpartial\_Click"ForeColor="White"BackColor="#33ccff"Font-Bold="true"BorderStyle="None"/>

<br/>

<br/>

<asp:LabelID="lblpartial"runat="server"Text=""></asp:Label>

</ContentTemplate>

</asp:UpdatePanel>

<p><strong>Outside the update panel</strong></p>

<asp:ButtonID="btntotal"runat="server"Text="Total PostBack"onclick="btntotal\_Click"ForeColor="White"BackColor="#33ccff"Font-Bold="true"BorderStyle="None"/>

<br/>

<br/>

<asp:LabelID="lbltotal"runat="server"Text=""></asp:Label>

</div>

</form>

</body>

</html>

**UpdatePanel.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace AjaxControls

{

publicpartialclassUpdatePanel : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid btnpartial\_Click(object sender, EventArgs e)

{

string time = DateTime.Now.ToLongTimeString();

lblpartial.Text = "showing time from panel: " + time;

lbltotal.Text = "showing time from outside: " + time;

}

protectedvoid btntotal\_Click(object sender, EventArgs e)

{

string time = DateTime.Now.ToLongTimeString();

lblpartial.Text = "showing time from panel: " + time;

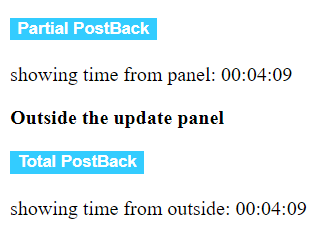
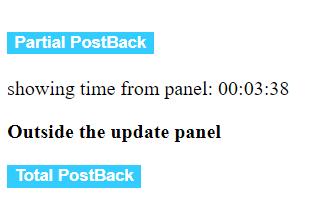
lbltotal.Text = "showing time from outside: " + time;

}

}

}

**Output:**

****

1. **UpdateProgress Control**

**Source Code:**

**UpdateProgress.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="UpdateProgress.aspx.cs"Inherits="AjaxControls.UpdateProgress"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

<formid="form1"runat="server">

<div>

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

<br/>

<asp:UpdateProgressID="UpdateProgress1"runat="server">

<ProgressTemplate>

<imgsrc="Images/Loading\_image.gif"alt="Loading"style="height: 126px; width: 180px"/>

</ProgressTemplate>

</asp:UpdateProgress>

</div>

<asp:UpdatePanelID="UpdatePanel1"runat="server">

<ContentTemplate>

<asp:ButtonID="updatepanel"runat="server"Text="Update"onclick="updatepanel\_Click1"Width="172px"BackColor="#33ccff"BorderStyle="None"Font-Bold="true"ForeColor="White"/>

<br/>

<br/>

<asp:LabelID="lblmessage"runat="server"></asp:Label>

</ContentTemplate>

</asp:UpdatePanel>

</form>

</body>

</html>

**UpdateProgress.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace AjaxControls

{

publicpartialclassUpdateProgress : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid updatepanel\_Click1(object sender, EventArgs e)

{

System.Threading.Thread.Sleep(5000);

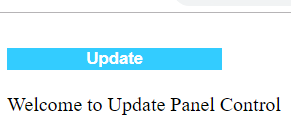
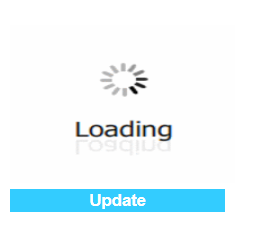
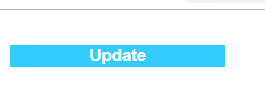
lblmessage.Text = "Welcome to Update Panel Control";

}

}

}

**Output:**

****

1. **Timer Control**

**Source Code:**

**Timer.aspx**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Timer.aspx.cs"Inherits="AjaxControls.Timer"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.auto-style1 {

font-size: large;

}

</style>

</head>

<body>

<formid="form1"runat="server">

<div>

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

</div>

<asp:TimerID="Timer1"runat="server"Interval="5000"ontick="Timer1\_Tick"></asp:Timer>

<asp:UpdatePanelID="timepanel"runat="server"UpdateMode="Conditional">

<Triggers>

<asp:AsyncPostBackTriggerControlID="Timer1"EventName="tick"/>

</Triggers>

<ContentTemplate>

<strong>

<asp:LabelID="Label1"runat="server"CssClass="auto-style1"></asp:Label>

</strong>

</ContentTemplate>

</asp:UpdatePanel>

</form>

</body>

</html>

**Timer.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace AjaxControls

{

publicpartialclassTimer : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid Timer1\_Tick(object sender, EventArgs e)

{

Label1.Text = DateTime.Now.ToString();

}

}

}

**Output:**

****