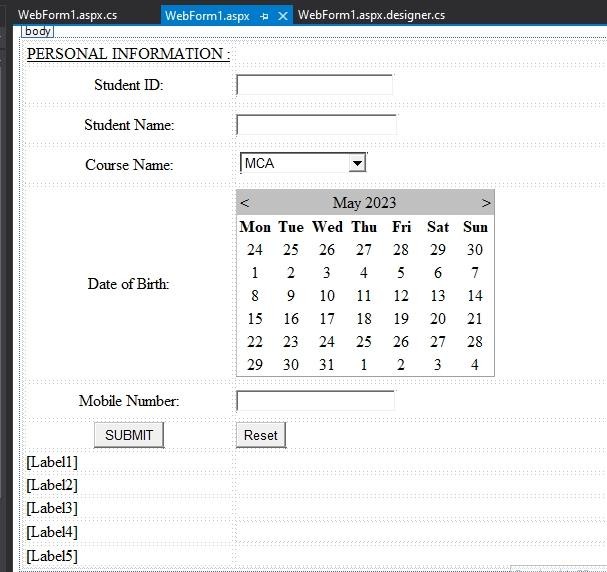
**Practical-1**

**Q] Design UI based applications using basic Windows forms Controls.**

1. **Personal Information**

**Design:-**



**HTML:-**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="WebForm1.aspx.cs"Inherits="WebApplication2.WebForm1"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.auto-style1{width:100%; }

.auto-style3{width:206px;text-decoration:underline;text-align:center; }

.auto-style4{width:206px;text-align:center; }

.auto-style5{width:206px;text-align:left; }

.auto-style6{width:206px;text-align:left;height:23px; }

.auto-style7{height:23px; }

.auto-style10{width:206px;text-align:center;height:38px; }

.auto-style11{height:38px; }

.auto-style12{width:206px;text-align:center;height:195px; }

.auto-style13{height:195px; }

.auto-style14{width:206px;text-align:center;height:36px;}

.auto-style15{height:36px; }

</style>

</head>

<body>

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

<tableclass="auto-style1">

<tr>

<tdclass="auto-style3">PERSONALINFORMATION:</td>

<td></td>

</tr>

<tr>

<tdclass="auto-style10">StudentID:</td>

<tdclass="auto-style11">

<asp:TextBoxID="TextBox1"runat="server"Width="150px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style10">StudentName:</td>

<tdclass="auto-style11">

<asp:TextBoxID="TextBox2"runat="server"Width="154px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style10">CourseName:</td>

<tdclass="auto-style11">

<asp:DropDownListID="DropDownList1"runat="server"Height="21px"

Width="127px">

<asp:ListItem>MCA</asp:ListItem>

<asp:ListItem>MMS</asp:ListItem>

<asp:ListItem>Pharmacy</asp:ListItem>

<asp:ListItem>LAW</asp:ListItem>

</asp:DropDownList>

</td>

</tr>

<tr>

<tdclass="auto-style12">DateofBirth:</td>

<tdclass="auto-style13">

<asp:CalendarID="Calendar1"runat="server"></asp:Calendar>

</td>

</tr>

<tr>

<tdclass="auto-style14">MobileNumber:</td>

<tdclass="auto-style15">

<asp:TextBoxID="TextBox5"runat="server"TextMode="Phone"width="152px"></asp:TextBox>

</td>

</tr>

<tr>

<tdclass="auto-style4">

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

"SUBMIT"/>

</td>

<td>

<asp:ButtonID="Button2"runat="server"OnClick="Button2\_Click"Text=

"Reset"/>

</td>

</tr>

<tr>

<tdclass="auto-style5">

<asp:LabelID="Label1"runat="server"></asp:Label>

</td>

<td></td>

</tr>

<tr>

<tdclass="auto-style5">

<asp:LabelID="Label2"runat="server"></asp:Label>

</td>

<td></td>

</tr>

<tr>

<tdclass="auto-style5">

<asp:LabelID="Label3"runat="server"></asp:Label>

</td>

<td></td>

</tr>

<tr>

<tdclass="auto-style6">

<asp:LabelID="Label4"runat="server"></asp:Label>

</td>

<tdclass="auto-style7"></td>

</tr>

<tr>

<tdclass="auto-style5">

<asp:LabelID="Label5"runat="server"></asp:Label>

</td>

<td></td>

</tr>

</table>

</form>

</body>

</html>

**WebForm1.aspx**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace WebApplication2

{

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

{

protected void Button1\_Click(objectsender,EventArgse)

{

Label1.Text="Student Id:"+TextBox1.Text;

Label2.Text="Student Name:"+TextBox2.Text;

Label3.Text="Course Name:"+DropDownList1.Text;

Label4.Text="Date of Birth:"+Calendar1.SelectedDate.ToLongDateString();

Label5.Text="MobileNumber:"+TextBox5.Text;

}

protected void Button2\_Click(objectsender,EventArgse)

{

Label1.Text="";

Label2.Text="";

Label3.Text="";

Label4.Text="";

Label5.Text="";

TextBox1.Text="";

TextBox2.Text="";

DropDownList1.Text="";

Calendar1.SelectedDate.ToLongDateString();

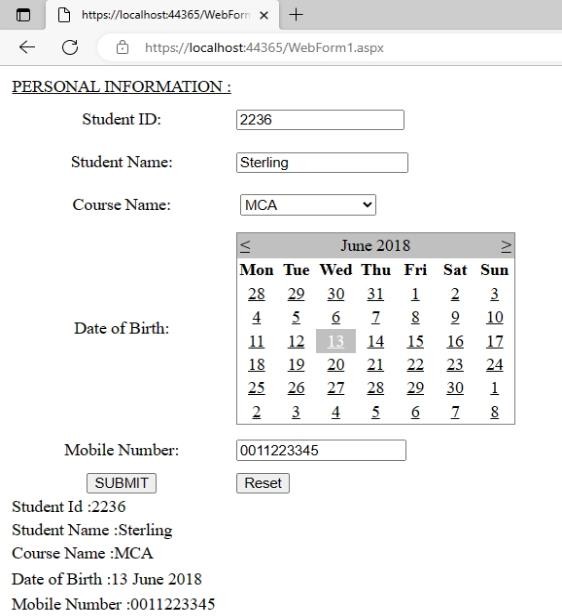
TextBox5.Text="";

}

}

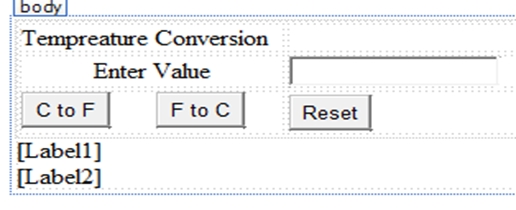
}

### OUTPUT:-



1. **Temperature Conversion**

**Design:-**



**HTML:-**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Temp.aspx.cs" Inherits="Prac2.Temp" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<style type="text/css">

.auto-style1 {width: 100%;}

.auto-style2 {width: 159px;}

.auto-style3 {width: 159px;text-align: center;}

</style>

</head>

<body>

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

<div>

<table class="auto-style1">

<tr>

<td class="auto-style2">Tempreature Conversion</td>

<td></td>

</tr>

<tr>

<td class="auto-style3">Enter Value</td>

<td>

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

</td>

</tr>

<tr>

<td class="auto-style2">

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click"

Text="C to F" />

<asp:Button ID="Button2" runat="server" OnClick="Button2\_Click"

Text="F to C" />

</td>

<td>

<asp:Button ID="Button3" runat="server" OnClick="Button3\_Click"

Text="Reset" />

</td>

</tr>

</table>

</div>

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

<br />

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

</form>

</body>

</html>

**Money.aspx.cs:**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Web;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespace Prac2

{

public partial class Temp : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

double c, f; c = int.Parse(TextBox1.Text);

f = c \* 9 / 5 + 32;

Label1.Text = string.Format("Temperature in Fahrenheit is(°F) : " + f);}

protected void Button2\_Click(object sender, EventArgs e)

{

double c, f; f = int.Parse(TextBox1.Text);

c = (f - 32) \* 5 / 9;

Label2.Text = string.Format("Temperature in Celsius is(°C) : " + c);}

protected void Button3\_Click(object sender, EventArgs e)

{

TextBox1.Text = "";

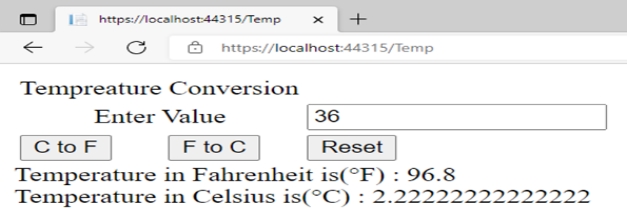
Label1.Text = "";

Label2.Text = "";}

}

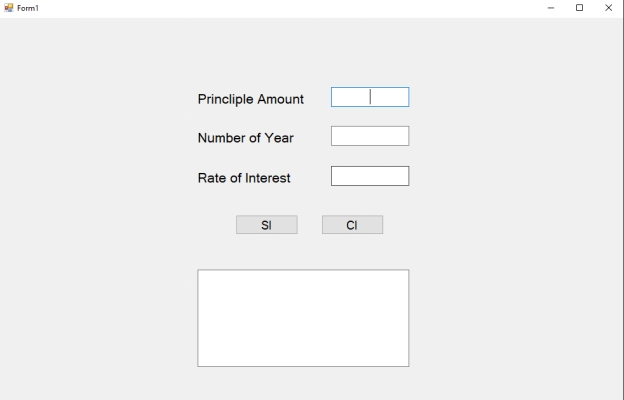
}

**OUTPUT:-**



1. **Simple Interest**

**Design:-**



**WindowForm1.aspx**

using System;

usingSystem.Collections.Generic;

usingSystem.ComponentModel;

usingSystem.Data;

usingSystem.Drawing;

usingSystem.Linq;

usingSystem.Text;

usingSystem.Threading.Tasks;

usingSystem.Windows.Forms;

namespaceCalculateInterest

{

classMyInterest

{

public Double SI, CI;

public Double P, R;

publicint N;

public Double Principal

{

get { return P; }

set { P = value; }

}

publicintNumOfYears

{

get { return N; }

set { N = value; }

}

public Double ROI

{

get { return R; }

set { R = value; }

}

public void calculateSI()

{

SI = (Principal \* NumOfYears \* ROI) / 100;

}

public void calculateCI()

{

CI = 1;

for (inti = 1; i<= NumOfYears; i++)

{

CI = CI \* (1 + (ROI / 100));

}

CI = CI \* Principal;

}

}

public partial class Form1 : Form

{

MyInterest m = new MyInterest();

void display(Boolean flag)

{

textBox4.Text = " Principal Amount : Rs." + m.Principal + "\r\n";

textBox4.Text += " Number of Years: " + m.NumOfYears + "\r\n";

textBox4.Text += " Rate of Interest: Rs." + m.ROI + "%";

if (flag)

{

textBox4.Text += "Simple Interest : Rs. " + m.SI.ToString();

}

else

{

textBox4.Text += "Compound Interest : Rs. " +

m.CI.ToString();

}

}

void setup()

{

m.Principal = Convert.ToDouble(textBox1.Text);

m.NumOfYears = Convert.ToInt32(textBox2.Text);

m.ROI = Convert.ToDouble(textBox3.Text);

}

public Form1()

{

InitializeComponent();

}

private void Form1\_Load(object sender, EventArgs e)

{

}

private void button1\_Click(object sender, EventArgs e)

{

setup();

m.calculateSI();

display(true);

}

private void button2\_Click(object sender, EventArgs e)

{

setup();

m.calculateCI();

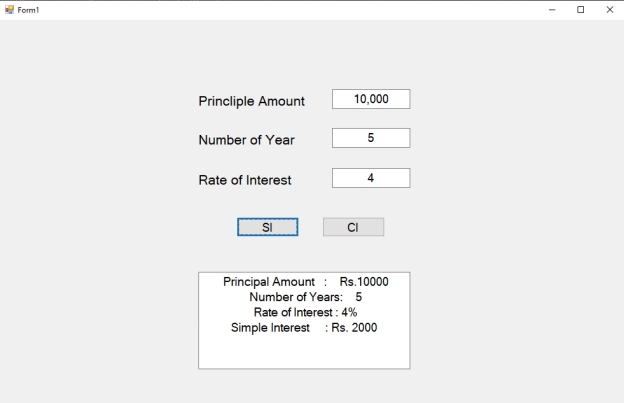
display(false);

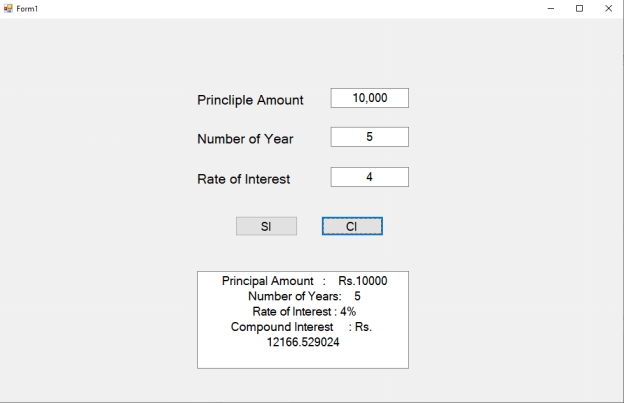
}

}

}

**OUTPUT:-**

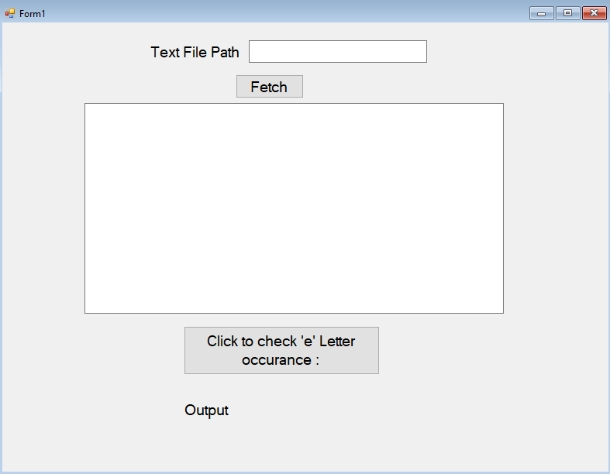




**Practical-2**

**Q] Design Applications using Classes and Objects.**

**Design:-**



**Form1.cs**

using System;

usingSystem.Collections.Generic;

usingSystem.ComponentModel;

usingSystem.Data;

usingSystem.Drawing;

usingSystem.Linq;

usingSystem.Text;

usingSystem.Threading.Tasks;

usingSystem.Windows.Forms;

using System.IO;

namespace Practical\_23

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void button1\_Click(object sender, EventArgs e)

{

string path = @textBox2.Text;

StreamReader stream = new StreamReader(path);

stringfiledata = stream.ReadToEnd();

textBox1.Text = filedata.ToString();

stream.Close();

}

private void button2\_Click(object sender, EventArgs e)

{

String str = textBox1.Text;

var count = str.Count(x => x == 'e');

label2.Text = "Letter 'e' has occurred " + count.ToString() + " times.";

}

private void textBox1\_TextChanged(object sender, EventArgs e)

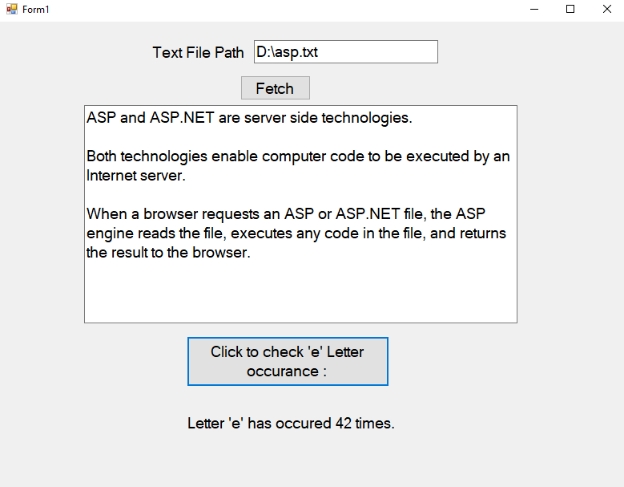
{

}

}

}

**OUTPUT:-**

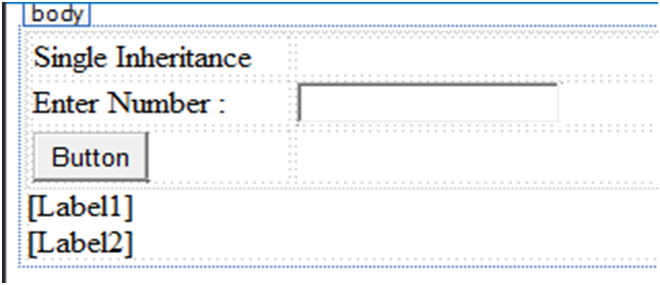


**Practical-3**

**Q] Design Applications using Inheritance and Abstract Classes.**

1. **Single Inheritance WT**

**Design**



**HTML:-**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="single.aspx.cs"Inherits="prac2b.single"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

<styletype="text/css">

.auto-style1 {width: 100%;}

.auto-style2 {width: 124px;}

</style>

</head>

<body>

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

<tableclass="auto-style1">

<tr>

<tdclass="auto-style2">Single Inheritance</td>

<td>&nbsp;</td>

</tr>

<tr>

<tdclass="auto-style2">Enter Number :</td>

<td>

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

</td>

</tr>

<tr>

<tdclass="auto-style2">

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

"Button"/>

</td>

<td>&nbsp;</td>

</tr>

</table>

<asp:LabelID="Label1"runat="server"></asp:Label>

<br/>

<asp:LabelID="Label2"runat="server"></asp:Label>

</form>

</body>

</html>

**Single.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace prac2b

{

publicpartialclasssingle : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

B s = new B();

int n = int.Parse(TextBox1.Text);

int x = s.sqr(n);

int y = s.cub(n);

Label1.Text = string.Format("The Square of number is : " +

x.ToString());

Label2.Text = string.Format("The Cube of number is : " + y.ToString());

}

publicclassA

{

publicint sqr(int val1)

{

return val1 \* val1;

}

}

publicclassB : A

{

publicint cub(int val1)

{

int v1 = sqr(val1);

return v1 \* val1;

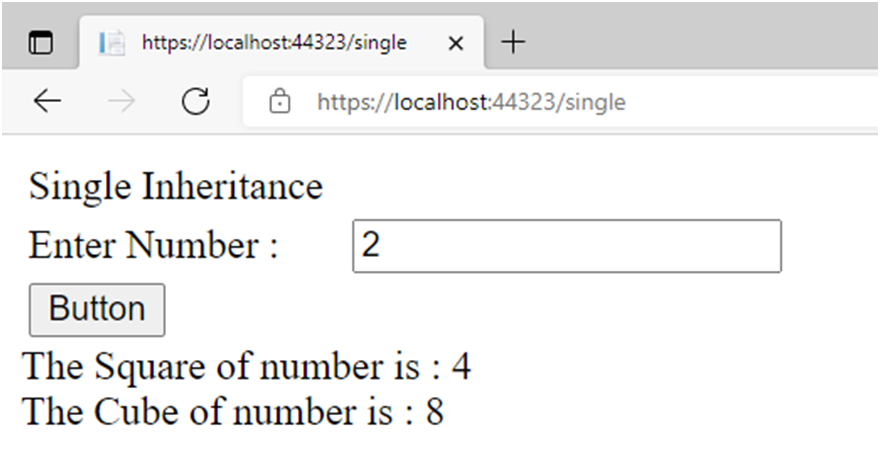
}

}

}

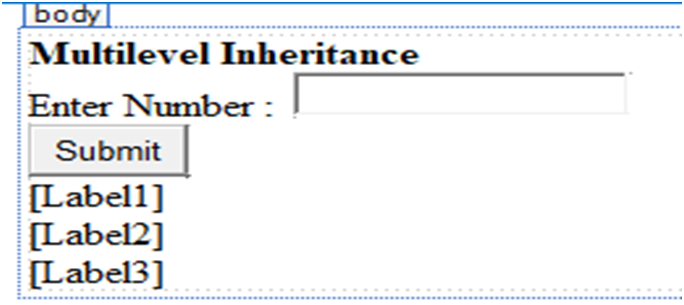
}

**OUTPUT:-**

****

1. **Multilevel Inheritance**

**Design**



**HTML:-**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Multilevel.aspx.cs"Inherits="prac2b.Multilevel"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

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

<div>

<strong>Multilevel Inheritance</strong><br/>

Enter Number :&nbsp;

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

<br/>

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

"Submit"/>

<br/>

<asp:LabelID="Label1"runat="server"></asp:Label>

<br/>

<asp:LabelID="Label2"runat="server"></asp:Label>

<br/>

<asp:LabelID="Label3"runat="server"></asp:Label>

</div>

</form>

</body>

</html>

**Multilevel.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace prac2b

{

publicpartialclassMultilevel : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

C s = new C();

int n = int.Parse(TextBox1.Text);

int x = s.sqr(n);

int y = s.cub(n); int z = s.sqr(n) + s.cub(n);

Label1.Text = string.Format("The Square of number is : " + x.ToString());

Label2.Text = string.Format("The Cube of number is : " + y.ToString());

Label3.Text = string.Format("The Sum of square and cube of number is : "

+ z.ToString());

}

publicclassA

{

publicint sqr(int val1)

{

return val1 \* val1;

}

}

publicclassB : A

{

publicint cub(int val1)

{

int v1 = sqr(val1);

return v1 \* val1;

}

}

publicclassC : B

{

publicint add(int val1, int a, int v1)

{

a = val1 + v1; return a;

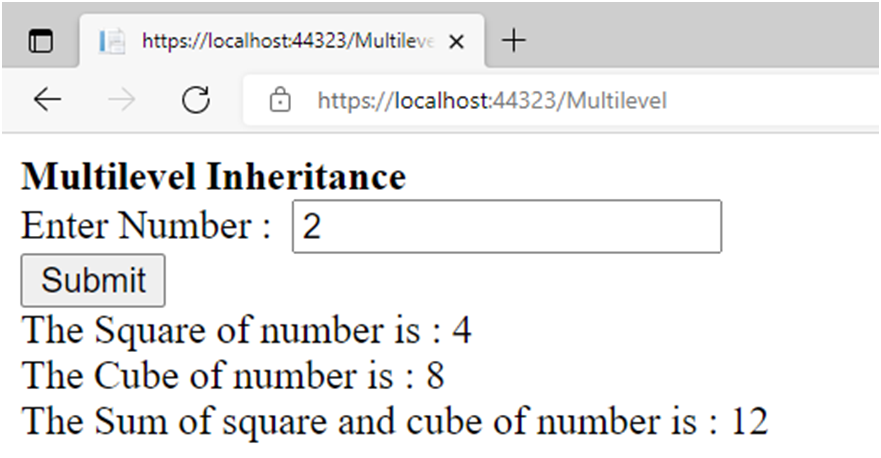
}

}

}

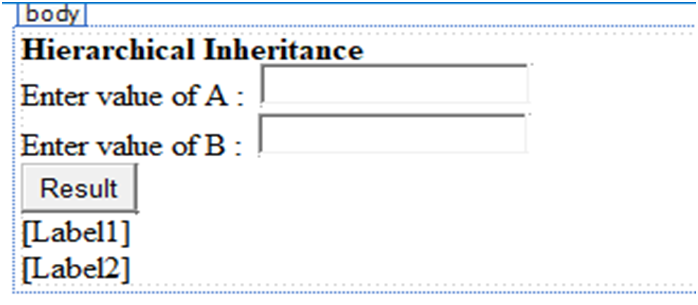
}

**OUTPUT:-**



1. **Hierarchical Inheritance**

**Design**



**HTML:-**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="Hierarchical.aspx.cs"Inherits="prac2b.WebForm2"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

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

<div>

<spanstyle="font-size:12.0pt;mso-bidi-font-size:11.0pt;line-height:103%;font-

family:&quot;Times New Roman&quot;,serif;mso-fareast-font-

family:&quot;Times New Roman&quot;;color:black;

mso-ansi-language:EN-IN;mso-fareast-language:EN-IN;mso-bidi-

language:EN-IN">

<bstyle="mso-bidi-font-weight:normal">Hierarchical Inheritance<br/>

</b><spanstyle="mso-bidi-font-weight:normal">Enter value of A :&nbsp;

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

<br/>

Enter value of B :&nbsp;

<asp:TextBoxID="TextBox2"runat="server"></asp:TextBox>

<br/>

<asp:ButtonID="Button1"runat="server"Text="Result"/>

</span></span><spanstyle="mso-bidi-font-weight:normal">

<br/>

<asp:LabelID="Label1"runat="server"></asp:Label>

<br/>

<asp:LabelID="Label2"runat="server"></asp:Label>

</span>

</div>

</form>

</body>

</html>

**Hierarchical.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace prac2b

{

publicpartialclassWebForm2 : System.Web.UI.Page

{

publicclassA

{

publicint a; publicint b;

}

publicclassB : A

{

publicint add(int val1, int val2)

{

a = val1; b = val2; return a + b;

}

}

publicclassC : A

{

publicint sub(int val1, int val2)

{

a = val1; b = val2; return a - b;

}

}

protectedvoid Page\_Load(object sender, EventArgs e)

{

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

B s1 = new B();

C s2 = new C();

int m = int.Parse(TextBox1.Text);

int n = int.Parse(TextBox2.Text);

int x = s1.add(m, n);

int y = s2.sub(m, n);

Label1.Text = string.Format("Addition of A and B is : " + x.ToString());

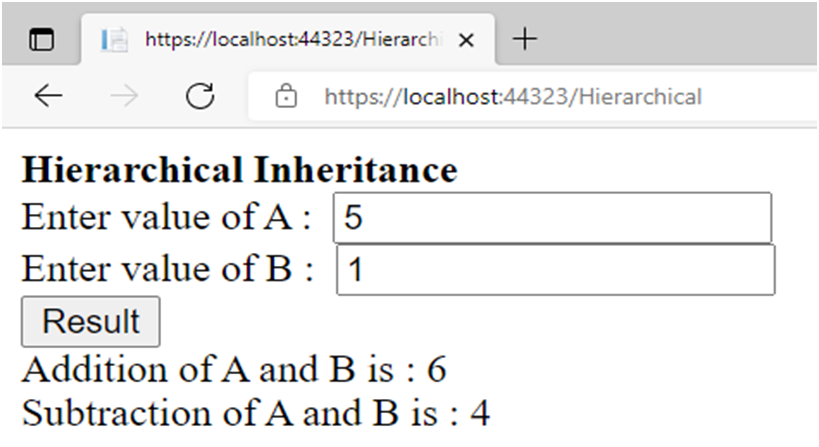
Label2.Text = string.Format("Subtraction of A and B is : " + y.ToString());

}

}

}

**OUTPUT:-**

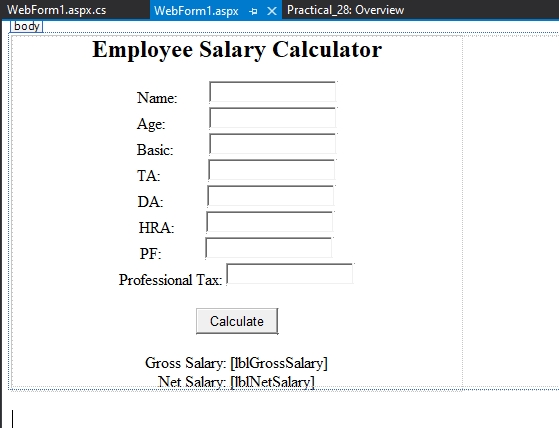


**Practical-4**

**Q] Design a Web Application for an Organization with Registration forms and**

**advanced controls.**

**Design:-**



**HTML:-**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="Practical\_28.WebForm1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<style type="text/css">

.auto-style1 {width: 450px;text-align: center;}

</style>

</head>

<body style="width: 1003px; height: 350px">

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

<div class="auto-style1">

<h2>Employee Salary Calculator</h2>

<label for="txtName">Name:</label>

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

<label for="txtAge">Age:</label>

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

<label for="txtBasic">Basic:</label>

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

<label for="txtTA">TA:</label>

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

<label for="txtDA">DA:</label>

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

<label for="txtHRA">HRA:</label>

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

<label for="txtPF">PF: </label>

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

<label for="txtProfessionalTax">Professional Tax:</label>

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

<br />

<br />

<asp:Button ID="btnCalculate" runat="server" Text="Calculate"

OnClick="btnCalculate\_Click" />

<br />

<br />

<label for="lblGrossSalary">Gross Salary:</label>

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

<label for="lblNetSalary">Net Salary:</label>

<asp:Label ID="lblNetSalary" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

**WebForm1.aspx**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Web;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespace Practical\_28

{

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

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void btnCalculate\_Click(object sender, EventArgs e)

{

string name = txtName.Text;

int age = Convert.ToInt32(txtAge.Text);

decimal basic = Convert.ToDecimal(txtBasic.Text);

decimal ta = Convert.ToDecimal(txtTA.Text);

decimal da = Convert.ToDecimal(txtDA.Text);

decimalhra = Convert.ToDecimal(txtHRA.Text);

decimal pf = Convert.ToDecimal(txtPF.Text);

decimalprofessionalTax = Convert.ToDecimal(txtProfessionalTax.Text);

// Calculate gross salary

decimalgrossSalary = basic + ta + da + hra;

// Calculate net salary after deductions

decimal deductions = pf + professionalTax;

decimalnetSalary = grossSalary - deductions;

// Display results

lblGrossSalary.Text = grossSalary.ToString("F2");

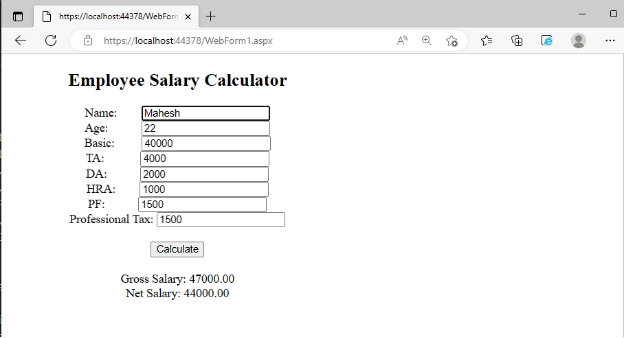
lblNetSalary.Text = netSalary.ToString("F2");

}

}

}

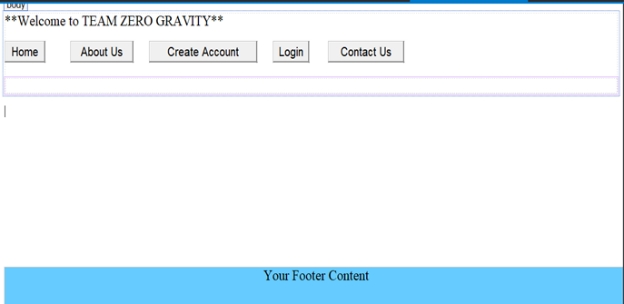
**OUTPUT:-**



**Practical-5**

**Q] Create website using master page concept.**

**Design:-**



**HTML:-**

**Masterpage.Master**

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

<!DOCTYPE html>

<html>

<head runat="server">

<title></title>

</head>

<body>

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

<p>\*\*Welcome to TEAM ZERO GRAVITY\*\*</p>

<p>

<asp:Button ID="Button1" runat="server"PostBackUrl="~/Home.aspx"

Text="Home" />

<asp:Button ID="Button2" runat="server" PostBackUrl="~/Aboutus.aspx"

Text="About Us" />

<asp:Button ID="Button3" runat="server"PostBackUrl="~/Create\_account.aspx"

Text="Create Account" OnClick="Button3\_Click" />

<asp:Button ID="Button4" runat="server" PostBackUrl="~/Login.aspx"

Text="Login" />

<asp:Button ID="Button5" runat="server" PostBackUrl="~/Contactus.aspx"

Text="Contact Us" />

</p>

<asp:ContentPlaceHolder ID="head" runat="server">

</asp:ContentPlaceHolder>

<div id="footer">

Your Footer Content

</div>

</form>

<style>

#footer{position:absolute;bottom:0;width:100%;height:60px;background:#6cf;

text-align:center;}

</style>

</body>

</html>

**Home.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master" AutoEventWireup="true" CodeBehind="Home.aspx.cs" Inherits="Masterpage.WebForm3" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

<p>

HEY! This is Zero Gravity Team Home Page!!

</p>

<p>

Glad you visited here :)

</p>

</asp:Content>

**Aboutus.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master" AutoEventWireup="true" CodeBehind="Aboutus.aspx.cs" Inherits="Masterpage.WebForm1" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

<p>WELCOME TO TEAM ZEROGRAVITY . We HAVE A GREAT ROASTER

FOR DOING BEST IN ESPORT BUT NOT HAVING ANY SPONSOR

GAREEBI!</p>

</asp:Content>

**Create\_account.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master" AutoEventWireup="true" CodeBehind="Create\_account.aspx.cs" Inherits="Masterpage.WebForm2" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

<p>

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

</p>

<p>

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

</p>

<p>

Password:<asp:TextBox ID="TextBox3" runat="server"

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

</p>

<p>

<asp:Button ID="Button6" runat="server" OnClick="Button6\_Click"

Text="Submit" />

</p>

<p>

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

</p>

</asp:Content>

**Login.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master" AutoEventWireup="true" CodeBehind="Login.aspx.cs" Inherits="Masterpage.WebForm4" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

<p>Login :</p>

<p>

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

</p>

<p>

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

</p>

<p>

<asp:CheckBox ID="CheckBox1" runat="server" Text="Remeber me next time" />

</p>

<p>

<asp:Button ID="Button6" runat="server" Text="Login" OnClientClick = "return

confirm('Ok i Will remember?');" />

</p>

</asp:Content>

**Contactus.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master" AutoEventWireup="true" CodeBehind="Contactus.aspx.cs" Inherits="Masterpage.WebForm5" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="head" runat="server">

<h2><%: Title %></h2>

<h3>Our contact page.</h3>

<address>

ulwe<br />

ulwe, mumbai 12345-6789<br />

<abbr title="Phone">Phone:</abbr>

123-456-789

</address>

<address>

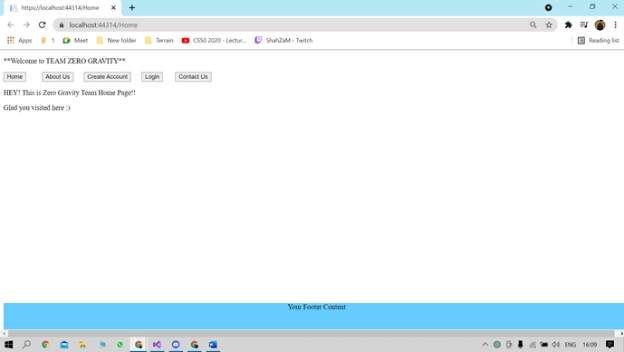
<strong>Support:</strong><a href="https://discord.gg/6Tnynq6Y">

deoxy@gmail.com</a><br />

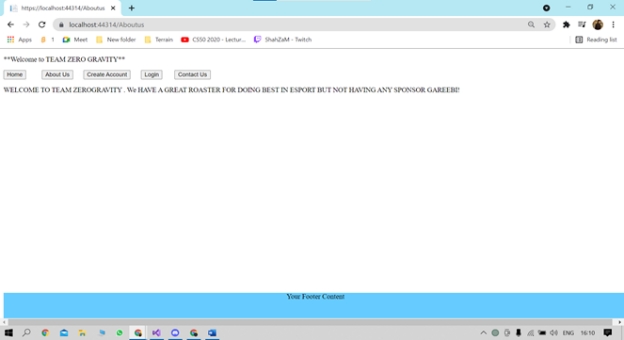
</address>

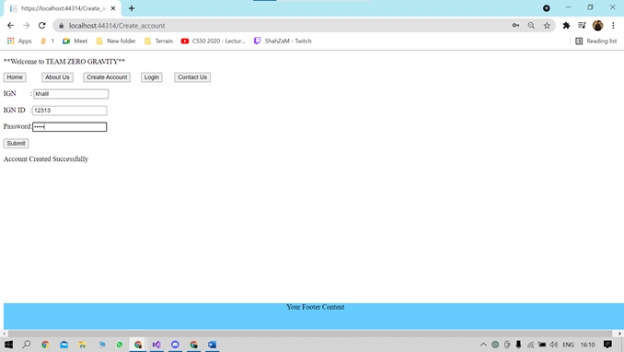
</asp:Content>

**OUTPUT:-**

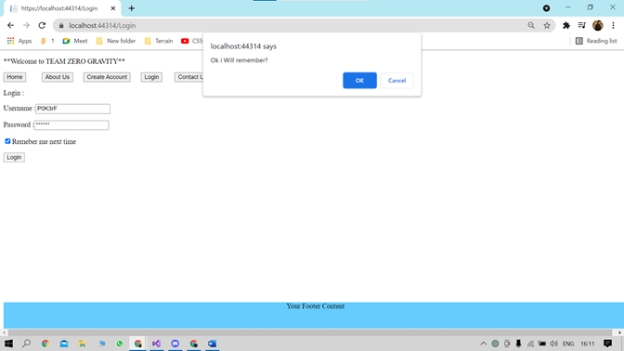
**Home:-**

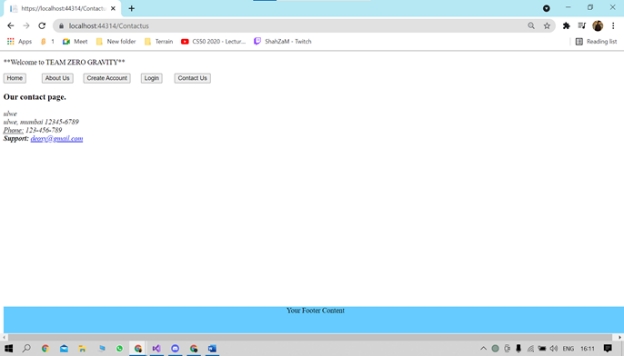
**Aboutus:-**



**Create account:-**

**Login:-**



**Contact:-**

**Practical-6**

**Q] Build an angular web application.**

**HTML:-**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

<scriptsrc="angular.min.js"></script>

</head>

<body ng-app="">

<h1 style="text-align: center"> AREA AND PERIMETER OF RECTANGLE</h1>

Length : <input type="number" ng-model="num1">

Breath : <input type="number" ng-model="num2">

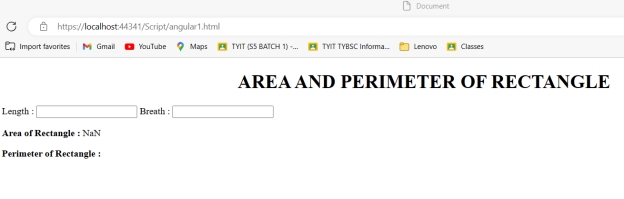
<P><strong>Area of Rectangle :</strong>**{{**num1\*num2**}}**</P>

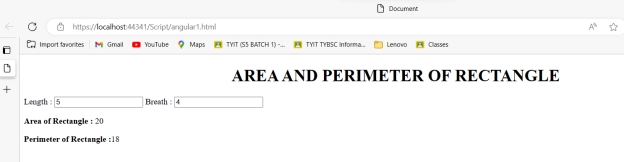
<P><strong>Perimeter of Rectangle :</strong>**{{**num1+num2+num1+num2**}}**</P>

</body>

</html>

**Output:-**





**Practical-7**

**Q] Design a webpage to demonstrate a connection oriented architecture.**

**Connected.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.SqlClient;

using System.Data;

namespace OrientedArchitecture

{

     public partial class Connected : System.Web.UI.Page

     {

        SqlConnection con = new SqlConnection(@"DataSource=(LocalDB)\MSSQLLocalDB;AttachDbFilename=F:\FYMCA\Sem2\AWT\OrientedArchitecture\OrientedArchitecture\App\_Data\Oriented.mdf;Integrated Security=True");

         protected void Page\_Load(object sender, EventArgs e)

         {

             if (con.State == ConnectionState.Open)

              {

                 con.Close();

             }

            con.Open();

            SqlCommand query = con.CreateCommand();

            query.CommandType = CommandType.Text;

            query.CommandText = "select \* from table1";

            query.ExecuteNonQuery();

            DataTable dt = new DataTable();

            SqlDataAdapter da=new SqlDataAdapter(query);

            da.Fill(dt);

            GridView1.DataSource = dt;

            GridView1.DataBind();

         }

      }

}

**Connected.aspx**

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

<!DOCTYPE html>

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

<head runat="server">

     <title></title>

</head>

<body>

     <form id="form1" runat="server">

         <div>

            <h2>Display Data using Connected Architecture</h2>

            <asp:GridView ID="GridView1" runat="server"></asp:GridView>

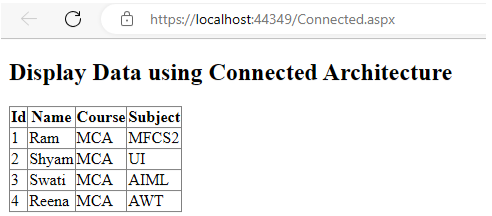
         </div>

     </form>

</body>

</html>

**Output:-**

****

**Practical-8**

**Q] Design a webpage to demonstrate a disconnected architecture.**

**Disconnected.aspx.cs**

using System;

using System.Collections.Generic;

using System.Data;

using System.Data.SqlClient;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace OrientedArchitecture

{

     public partial class Disconnected : System.Web.UI.Page

     {

   SqlConnection con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=F:\FYMCA\Sem2\AWT\OrientedArchitecture\OrientedArchitecture\App\_Data\Oriented.mdf;Integrated Security=True");

         protected void Page\_Load(object sender, EventArgs e)

         {

             if (con.State == ConnectionState.Open)

             {

                 con.Close();

             }

            con.Open();

            SqlCommand query = con.CreateCommand();

            query.CommandType = CommandType.Text;

            query.CommandText = "select \* from table1";

            query.ExecuteNonQuery();

            DataTable dt = new DataTable();

            SqlDataAdapter da = new SqlDataAdapter(query);

            da.Fill(dt);

            GridView1.DataSource = dt;

            GridView1.DataBind();

         }

     }

}

**Disconnected.aspx**

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

<!DOCTYPE html>

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

<head runat="server">

     <title></title>

</head>

<body>

     <form id="form1" runat="server">

         <div>

             <h2>Display Data using Disconnected Architecture</h2>

             <asp:GridView ID="GridView1" runat="server" ></asp:GridView>

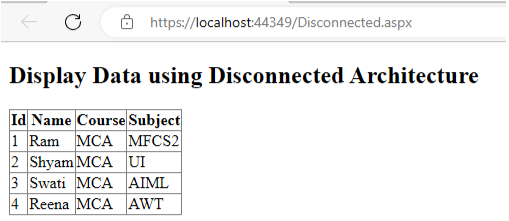
         </div>

     </form>

</body>

</html>

**Output:-**

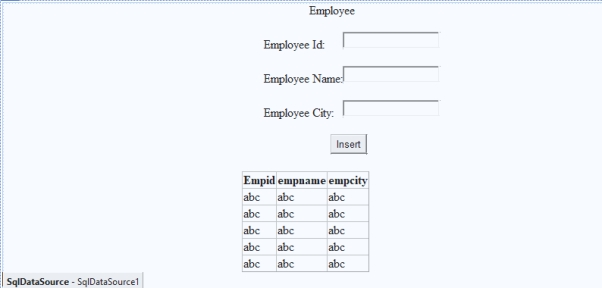
****

**Practical-9**

**Q] Create a webpage that demonstrates the use of data bound controls of**

**ASP.NET.**

**Design:-**



**Code:-**

usingMicrosoft.Ajax.Utilities;

using System;

usingSystem.Collections.Generic;

usingSystem.Data;

usingSystem.Data.SqlClient;

usingSystem.Drawing;

usingSystem.Linq;

using System.Net;

usingSystem.Reflection.Emit;

usingSystem.Security.Policy;

usingSystem.Web;

usingSystem.Web.Services.Description;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

usingSystem.Xml.Linq;

namespace Database

{

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

{

SqlConnection con = new SqlConnection("Data Source=(LocalDB)\\MSSQLLocalDB;Initial Catalog=Employee;Integrated Security=True");

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

stringconnectionString="Data Source=(LocalDB)\\MSSQLLocalDB;Initial

Catalog=Employee;Integrated Security=True";

SqlConnection con = new SqlConnection(connectionString);

con.Open();

stringEmpid = TextBox1.Text;

stringempname = TextBox2.Text;

stringempcity = TextBox3.Text;

string query = "Insert into Emp(Empid,empname,empcity) values('" + Empid

+ "','" + empname + "','" + empcity + "')";

SqlCommandcmd = new SqlCommand(query, con);

cmd.ExecuteNonQuery();

con.Close();

ScriptManager.RegisterStartupScript(this, this.GetType(), "alert",

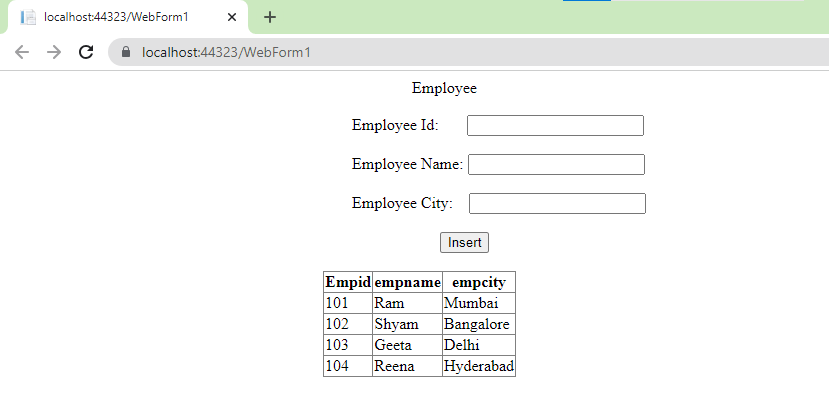
"alert('Record inserted') ;", true);

}

}

}

**Output:-**



**Practical-10**

**Q] Design a webpage to demonstrate the working of a simple store procedure.**

**Form1.cs**

using System.Data;

using System.Data.SqlClient;

using System.Windows.Forms;

namespace emp

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

SqlConnection con = new SqlConnection("Data Source=LAPTOP-QR98JAF0\\SQLEXPRESS01;Initial Catalog=AWT\_database;User ID=sonam;Password=9597");

private void Form1\_Load(object sender, EventArgs e)

{

GetEmpList();

}

private void button1\_Click(object sender, EventArgs e)

{

int empid = int.Parse(textBox1.Text);

string name = textBox2.Text, city = textBox4.Text;

int age = int.Parse(textBox3.Text);

con.Open();

SqlCommand c = new SqlCommand("exec insertEmp '" + empid + "','" + name + "','"

+ city + "','" + age + "'", con);

c.ExecuteNonQuery();

MessageBox.Show("Successfully Inserted......");

GetEmpList();

}

void GetEmpList()

{

SqlCommand c = new SqlCommand("exec list\_Emp", con);

SqlDataAdapter sd = new SqlDataAdapter(c);

DataTable dt = new DataTable();

sd.Fill(dt);

dataGridView1.DataSource = dt;

}

private void button2\_Click(object sender, EventArgs e)

{

string city = textBox4.Text;

SqlCommand c = new SqlCommand(" exec Search\_Emp '" + city + "'", con);

SqlDataAdapter sd = new SqlDataAdapter(c);

DataTable dt = new DataTable();

sd.Fill(dt);

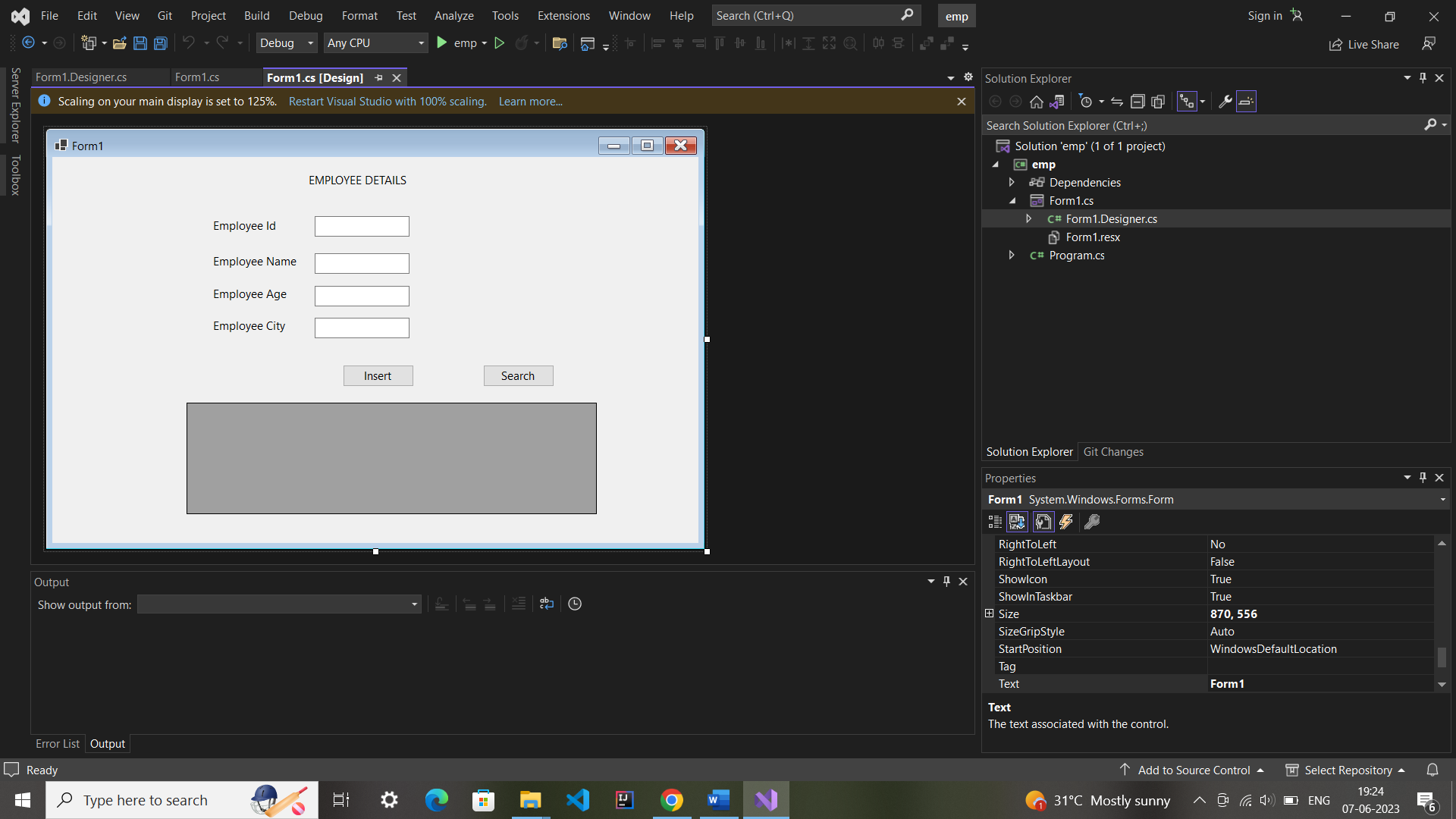
dataGridView1.DataSource = dt;

}

}

}

**Form1.Design**



**SQL Query:-**

create proc insertEmp

@emp\_id int,

@emp\_name nchar(20),

@emp\_city nchar(20),

@emp\_age int

as begin

Insert into Emp(EmpId,EmpName,EmpCity,EmpAge)

values(@emp\_id,@emp\_name,@emp\_city,@emp\_age)

end

create proc list\_Emp as begin

Select \* from Emp

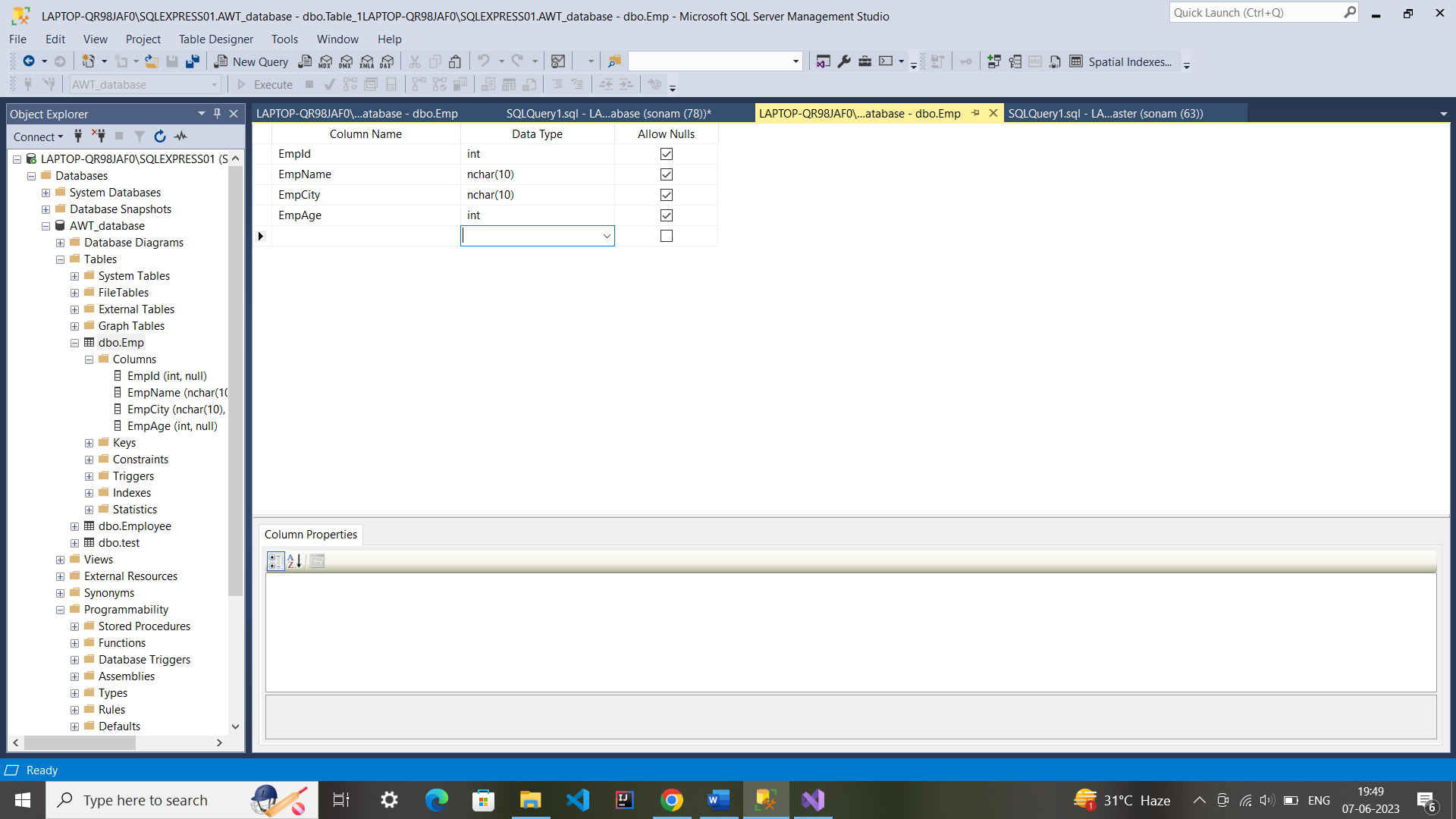
end

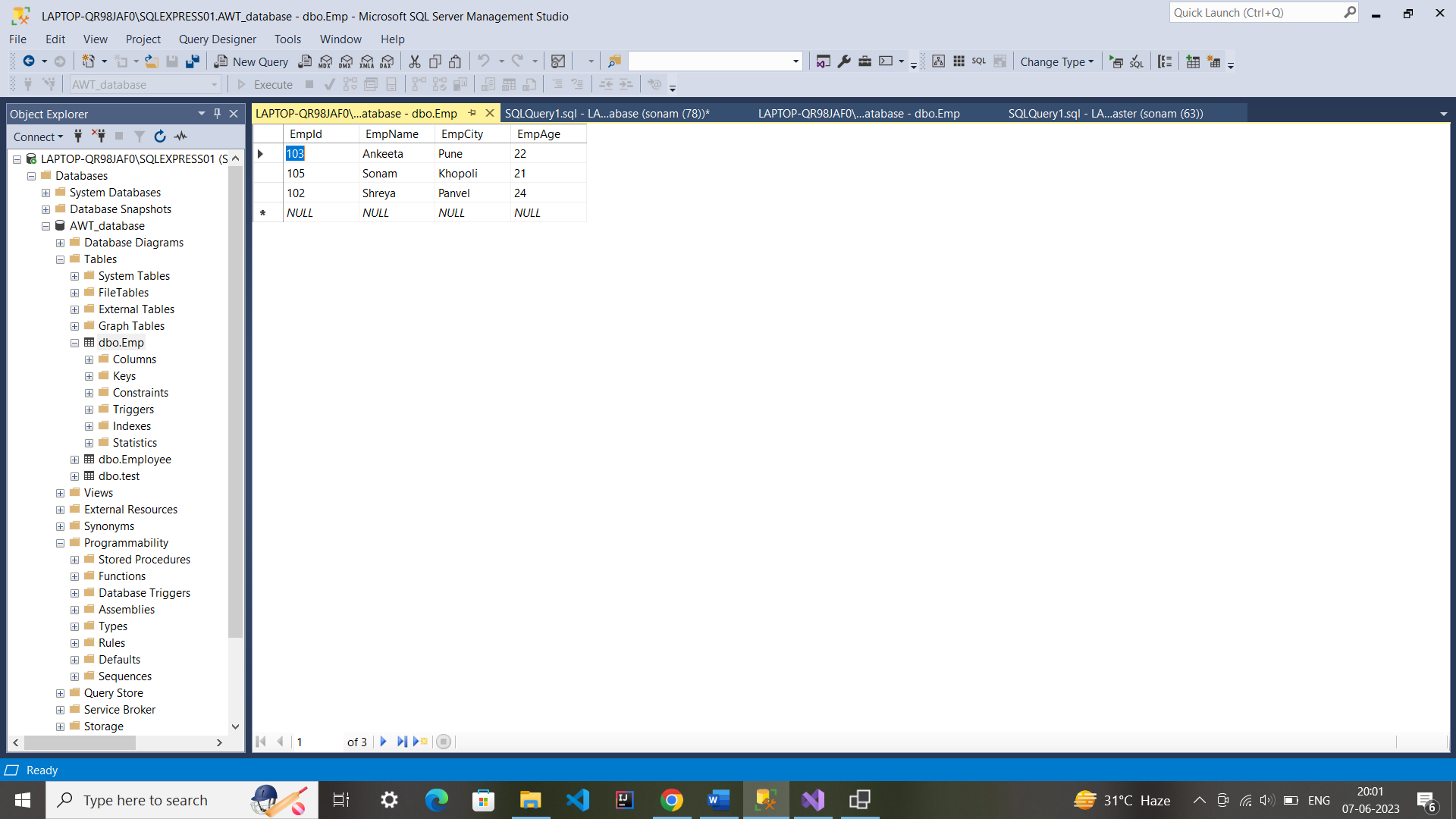
create proc Search\_Emp @emp\_city nchar(20) as begin

Select \* from Emp where EmpCity=@emp\_city

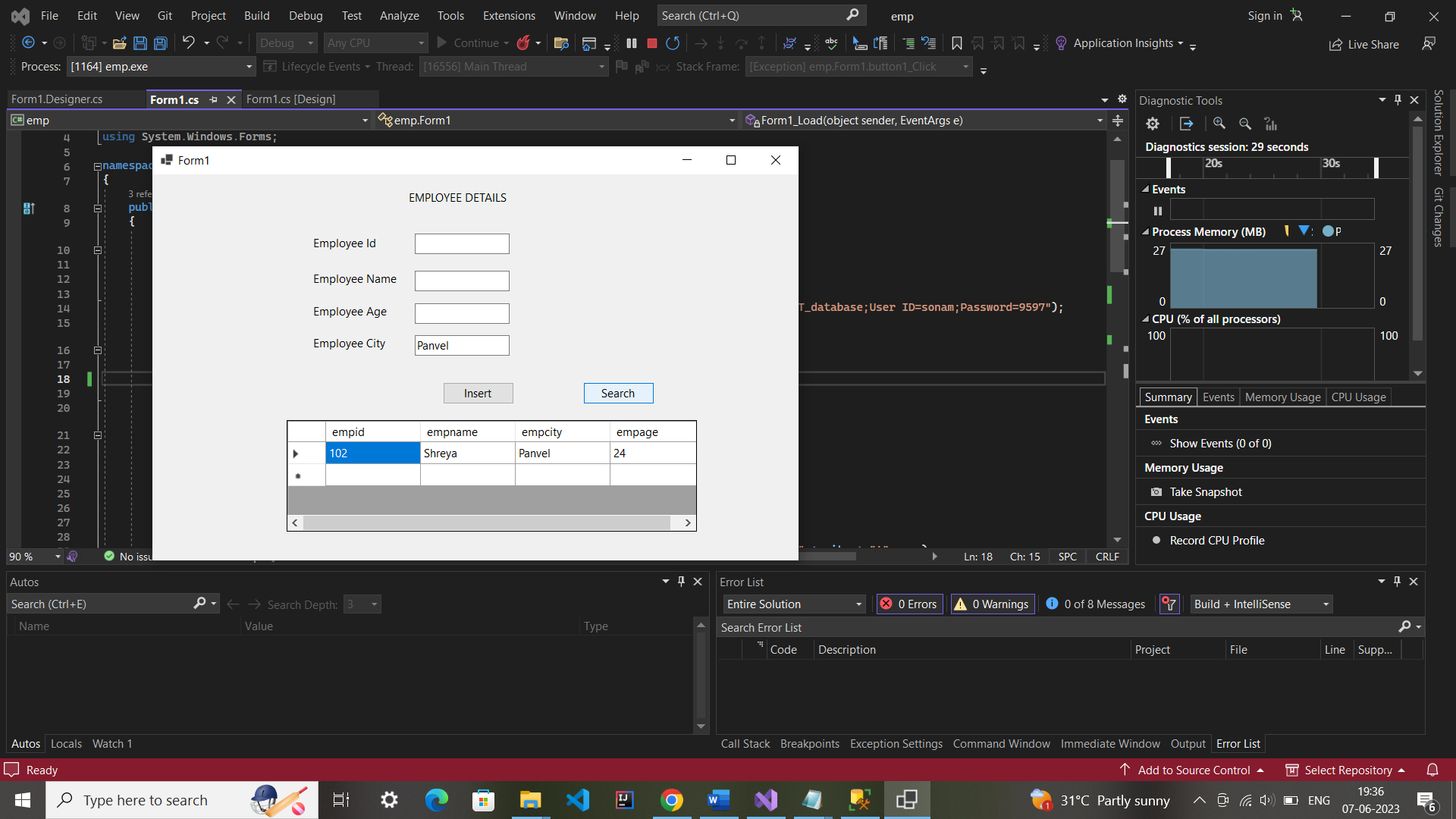
end

**Table design:-**

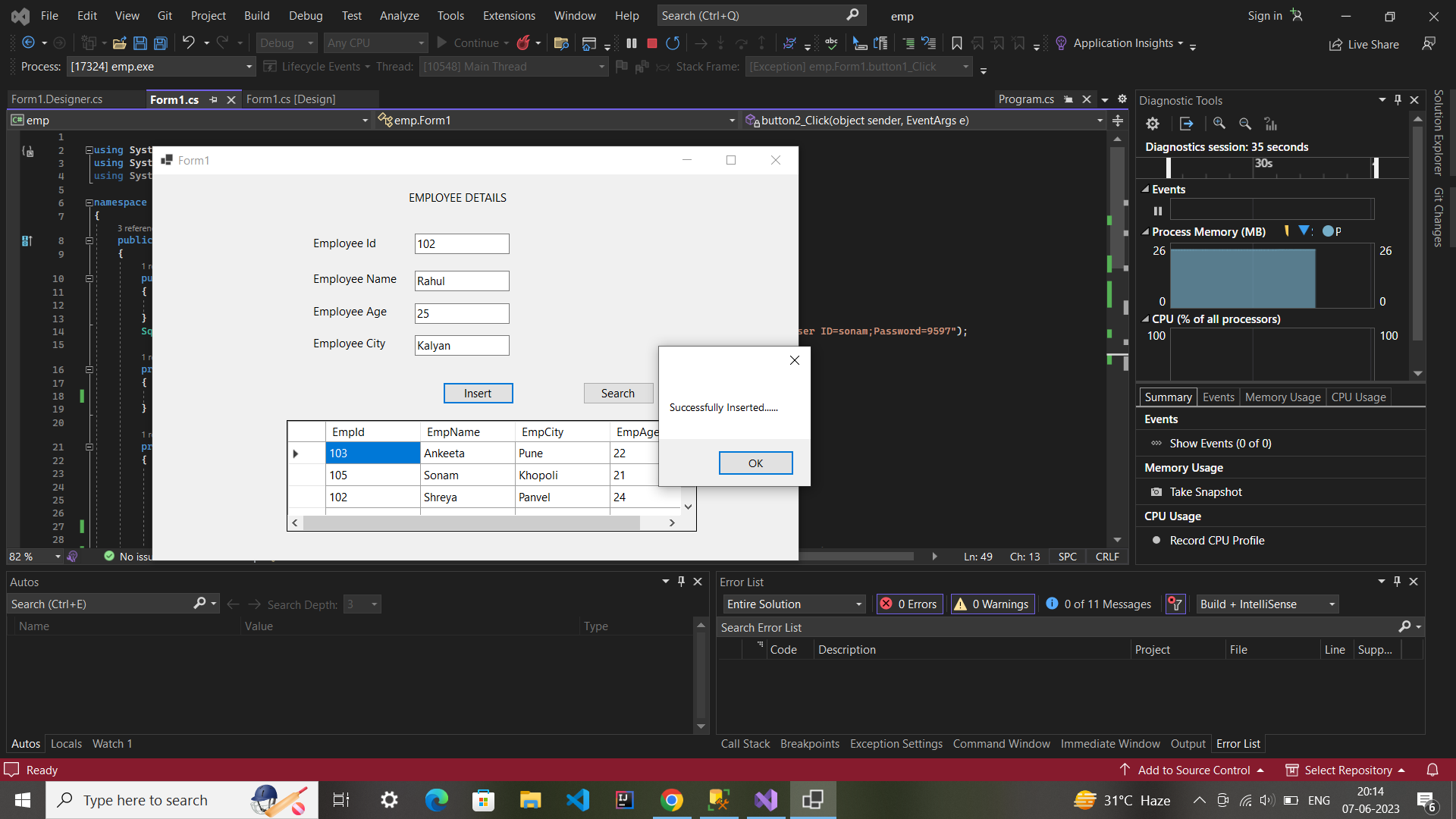




**Search employee:**



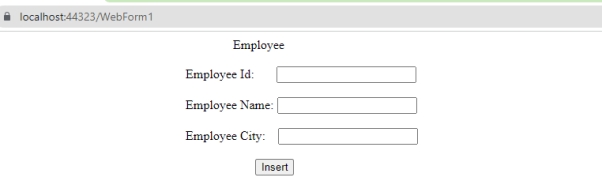
**Inserting data:**



**Practical-11**

**Q] Design a webpage to demonstrate the working of parameterized stored procedure.**

**Design:-**



**Code:-**

usingMicrosoft.Ajax.Utilities;

using System;

usingSystem.Collections.Generic;

usingSystem.Data;

usingSystem.Data.SqlClient;

usingSystem.Drawing;

usingSystem.Linq;

using System.Net;

usingSystem.Reflection.Emit;

usingSystem.Security.Policy;

usingSystem.Web;

usingSystem.Web.Services.Description;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

usingSystem.Xml.Linq;

namespace Database

{

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

{

SqlConnection con = new SqlConnection("Data

Source=(LocalDB)\\MSSQLLocalDB;Initial Catalog=Employee;Integrated

Security=True");

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

stringconnectionString="Data Source=(LocalDB)\\MSSQLLocalDB;Initial

Catalog=Employee;Integrated Security=True";

SqlConnection con = new SqlConnection(connectionString);

con.Open();

stringEmpid = TextBox1.Text;

stringempname = TextBox2.Text;

stringempcity = TextBox3.Text;

string query = "Insert into Emp(Empid,empname,empcity) values('" + Empid

+ "','" + empname + "','" + empcity + "')";

SqlCommandcmd = new SqlCommand(query, con);

cmd.ExecuteNonQuery();

con.Close();

ScriptManager.RegisterStartupScript(this, this.GetType(), "alert",

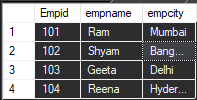
"alert('Record inserted') ;", true);

}

}

}

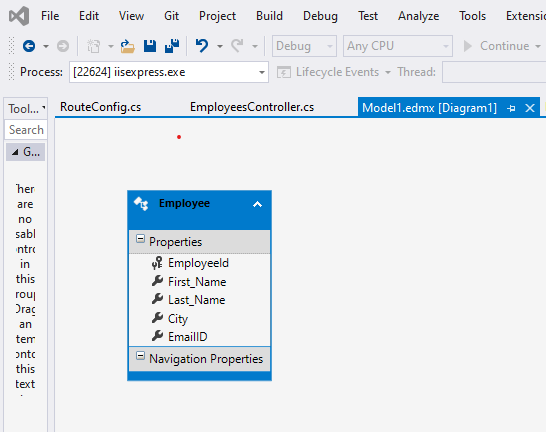
**Output:-**



**Practical-12**

**Q] Build websites to demonstrate the working of entity framework in dot net.**

**Model:**

****

**Controller:**

using System;

using System.Collections.Generic;

using System.Data;

using System.Data.Entity;

using System.Linq;

using System.Net;

using System.Web;

using System.Web.Mvc;

using prac\_18\_MVC;

namespace prac\_18\_MVC.Controllers

{

public class EmployeesController : Controller

{

private EmployeeDBEntities db = new EmployeeDBEntities();

// GET: Employees

public ActionResult Index()

{

return View(db.Employees.ToList());

}

// GET: Employees/Details/5

public ActionResult Details(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Employee employee = db.Employees.Find(id);

if (employee == null)

{

return HttpNotFound();

}

return View(employee);

}

// GET: Employees/Create

public ActionResult Create()

{

return View();

}

// POST: Employees/Create

[HttpPost]

[ValidateAntiForgeryToken]

public ActionResult Create([Bind(Include =

"EmployeeId,First\_Name,Last\_Name,City,EmailID")] Employee employee)

{

if (ModelState.IsValid)

{

db.Employees.Add(employee);

db.SaveChanges();

return RedirectToAction("Index");

}

return View(employee);

}

// GET: Employees/Edit/5

public ActionResult Edit(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Employee employee = db.Employees.Find(id);

if (employee == null)

{

return HttpNotFound();

}

return View(employee);

}

// POST: Employees/Edit/5

[HttpPost]

[ValidateAntiForgeryToken]

public ActionResult Edit([Bind(Include

"EmployeeId,First\_Name,Last\_Name,City,EmailID")] Employee employee)

{

if (ModelState.IsValid)

{

db.Entry(employee).State = EntityState.Modified;

db.SaveChanges();

return RedirectToAction("Index");

}

return View(employee);

}

// GET: Employees/Delete/5

public ActionResult Delete(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Employee employee = db.Employees.Find(id);

if (employee == null)

{

return HttpNotFound();

}

return View(employee);

}

// POST: Employees/Delete/5

[HttpPost, ActionName("Delete")]

[ValidateAntiForgeryToken]

public ActionResult DeleteConfirmed(int id)

{

Employee employee = db.Employees.Find(id);

db.Employees.Remove(employee);

db.SaveChanges();

return RedirectToAction("Index");

}

protected override void Dispose(bool disposing)

{

if (disposing)

{

db.Dispose();

}

base.Dispose(disposing);

}

}

}

**View:**

1. **Index.cshtml**

@model IEnumerable<prac\_18\_MVC.Employee>

@{

ViewBag.Title = "Index";

Layout = "~/Views/Shared/\_Layout.cshtml";

}

<h2>Index</h2>

<p>

@Html.ActionLink("Create New", "Create")

</p>

<table class="table">

<tr>

<th>

@Html.DisplayNameFor(model => model.First\_Name)

</th>

<th>

@Html.DisplayNameFor(model => model.Last\_Name)

</th>

<th>

@Html.DisplayNameFor(model => model.City)

</th>

<th>

@Html.DisplayNameFor(model => model.EmailID)

</th>

<th></th>

</tr>

@foreach (var item in Model) {

<tr>

<td>

@Html.DisplayFor(modelItem => item.First\_Name)

</td>

<td>

@Html.DisplayFor(modelItem => item.Last\_Name)

</td>

<td>

@Html.DisplayFor(modelItem => item.City)

</td>

<td>

@Html.DisplayFor(modelItem => item.EmailID)

</td>

<td>

@Html.ActionLink("Edit", "Edit", new { id=item.EmployeeId }) |

@Html.ActionLink("Details", "Details", new { id=item.EmployeeId }) |

@Html.ActionLink("Delete", "Delete", new { id=item.EmployeeId })

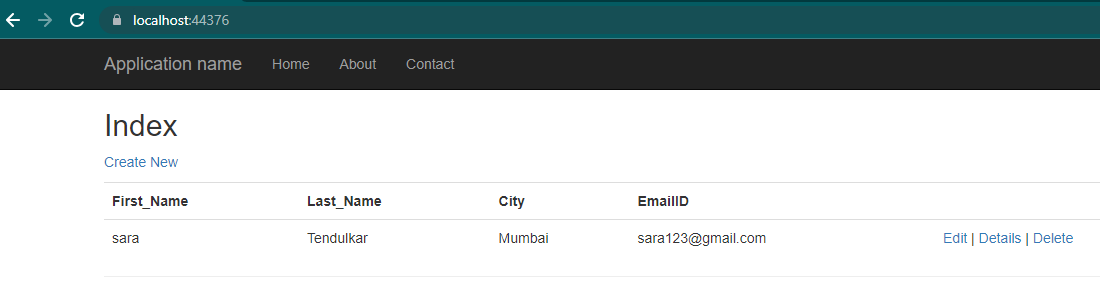
</td>

</tr>

}

</table>

**Output:-**



1. **Create.cshtml**

@model prac\_18\_MVC.Employee

@{

ViewBag.Title = "Create";

Layout = "~/Views/Shared/\_Layout.cshtml";

}

<h2>Create</h2>

@using (Html.BeginForm())

{

@Html.AntiForgeryToken()

<div class="form-horizontal">

<h4>Employee</h4>

<hr />

@Html.ValidationSummary(true, "", new { @class = "text-danger" })

<div class="form-group">

@Html.LabelFor(model => model.First\_Name, htmlAttributes: new { @class =

"control-label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.First\_Name, new { htmlAttributes = new {

@class = "form-control" } })

@Html.ValidationMessageFor(model => model.First\_Name, "", new { @class =

"text-danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.Last\_Name, htmlAttributes: new { @class =

"control-label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.Last\_Name, new { htmlAttributes = new {

@class = "form-control" } })

@Html.ValidationMessageFor(model => model.Last\_Name, "", new { @class =

"text-danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.City, htmlAttributes: new { @class = "control-

label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.City, new { htmlAttributes = new { @class =

"form-control" } })

@Html.ValidationMessageFor(model => model.City, "", new { @class = "text-

danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.EmailID, htmlAttributes: new { @class = "control-

label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.EmailID, new { htmlAttributes = new { @class

= "form-control" } })

@Html.ValidationMessageFor(model => model.EmailID, "", new { @class =

"text-danger" })

</div>

</div>

<div class="form-group">

<div class="col-md-offset-2 col-md-10">

<input type="submit" value="Create" class="btn btn-default" />

</div>

</div>

</div>

}

<div>

@Html.ActionLink("Back to List", "Index")

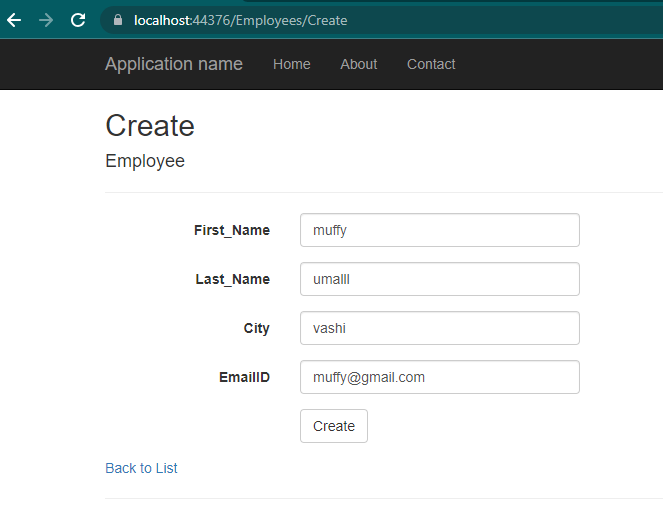
</div>

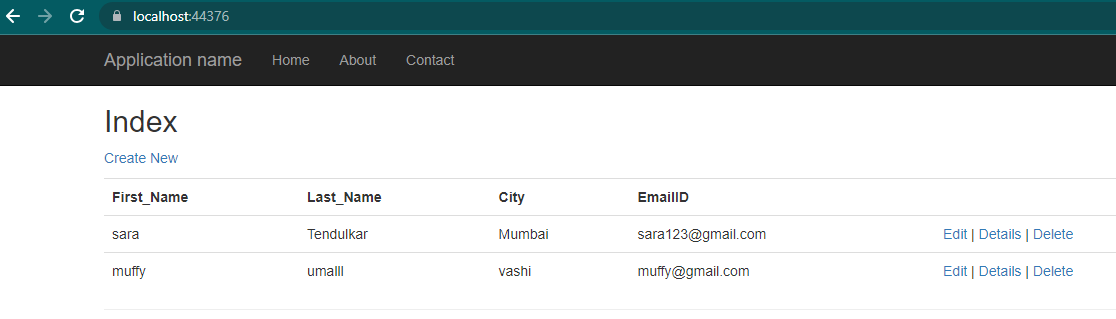
@section Scripts {

@Scripts.Render("~/bundles/jqueryval")

}

**Output:-**

****

****

1. **Details.cshtml**

@model prac\_18\_MVC.Employee

@{

ViewBag.Title = "Details";

Layout = "~/Views/Shared/\_Layout.cshtml";

}

<h2>Details</h2>

<div>

<h4>Employee</h4>

<hr />

<dl class="dl-horizontal">

<dt>

@Html.DisplayNameFor(model => model.First\_Name)

</dt>

<dd>

@Html.DisplayFor(model => model.First\_Name)

</dd>

<dt>

@Html.DisplayNameFor(model => model.Last\_Name)

</dt>

<dd>

@Html.DisplayFor(model => model.Last\_Name)

</dd>

<dt>

@Html.DisplayNameFor(model => model.City)

</dt>

<dd>

@Html.DisplayFor(model => model.City)

</dd>

<dt>

@Html.DisplayNameFor(model => model.EmailID)

</dt>

<dd>

@Html.DisplayFor(model => model.EmailID)

</dd>

</dl>

</div>

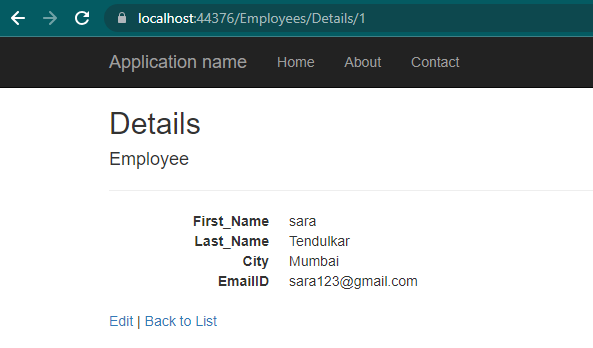
<p>

@Html.ActionLink("Edit", "Edit", new { id = Model.EmployeeId }) |

@Html.ActionLink("Back to List", "Index")

</p>

**Output:-**



1. **Edit.cshtml**

@model prac\_18\_MVC.Employee

@{

ViewBag.Title = "Edit";

Layout = "~/Views/Shared/\_Layout.cshtml";

}

<h2>Edit</h2>

@using (Html.BeginForm())

{

@Html.AntiForgeryToken()

<div class="form-horizontal">

<h4>Employee</h4>

<hr />

@Html.ValidationSummary(true, "", new { @class = "text-danger" })

@Html.HiddenFor(model => model.EmployeeId)

<div class="form-group">

@Html.LabelFor(model => model.First\_Name, htmlAttributes: new { @class =

"control-label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.First\_Name, new { htmlAttributes = new {

@class = "form-control" } })

@Html.ValidationMessageFor(model => model.First\_Name, "", new { @class =

"text-danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.Last\_Name, htmlAttributes: new { @class =

"control- label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.Last\_Name, new { htmlAttributes = new {

@class = "form-control" } })

@Html.ValidationMessageFor(model => model.Last\_Name, "", new { @class =

"text-danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.City, htmlAttributes: new { @class = "control-

label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.City, new { htmlAttributes = new { @class =

"form-control" } })

@Html.ValidationMessageFor(model => model.City, "", new { @class = "text- danger" })

</div>

</div>

<div class="form-group">

@Html.LabelFor(model => model.EmailID, htmlAttributes: new { @class = "control-

label col-md-2" })

<div class="col-md-10">

@Html.EditorFor(model => model.EmailID, new { htmlAttributes = new { @class

= "form-control" } })

@Html.ValidationMessageFor(model => model.EmailID, "", new { @class =

"text-danger" })

</div>

</div>

<div class="form-group">

<div class="col-md-offset-2 col-md-10">

<input type="submit" value="Save" class="btn btn-default" />

</div>

</div>

</div>

}

<div>

@Html.ActionLink("Back to List", "Index")

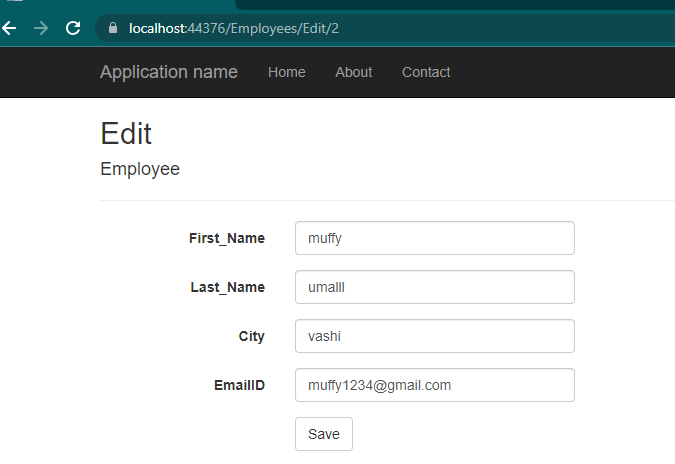
</div>

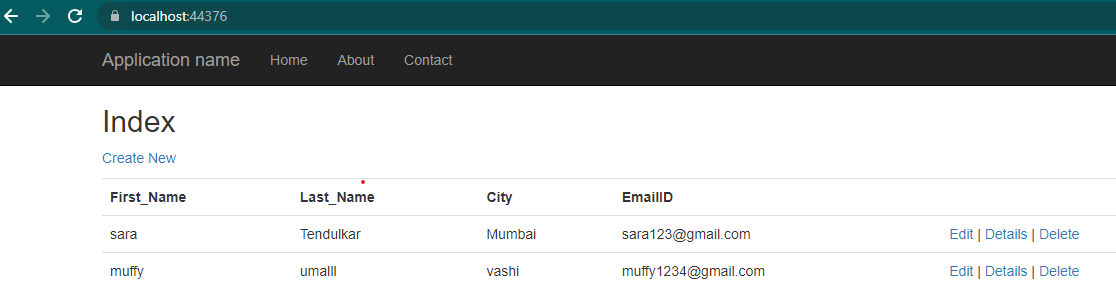
@section Scripts {

@Scripts.Render("~/bundles/jqueryval")

}

**Output:-**

****

****

1. **Delete.cshtml**

@model prac\_18\_MVC.Employee

@{

ViewBag.Title = "Delete";

Layout = "~/Views/Shared/\_Layout.cshtml";

}

<h2>Delete</h2>

<h3>Are you sure you want to delete this?</h3>

<div>

<h4>Employee</h4>

<hr />

<dl class="dl-horizontal">

<dt>

@Html.DisplayNameFor(model => model.First\_Name)

</dt>

<dd>

@Html.DisplayFor(model => model.First\_Name)

</dd>

<dt>

@Html.DisplayNameFor(model => model.Last\_Name)

</dt>

<dd>

@Html.DisplayFor(model => model.Last\_Name)

</dd>

<dt>

@Html.DisplayNameFor(model => model.City)

</dt>

<dd>

@Html.DisplayFor(model => model.City)

</dd>

<dt>

@Html.DisplayNameFor(model => model.EmailID)

</dt>

<dd>

@Html.DisplayFor(model => model.EmailID)

</dd>

</dl>

@using (Html.BeginForm()) {

@Html.AntiForgeryToken()

<div class="form-actions no-color">

<input type="submit" value="Delete" class="btn btn-default" /> |

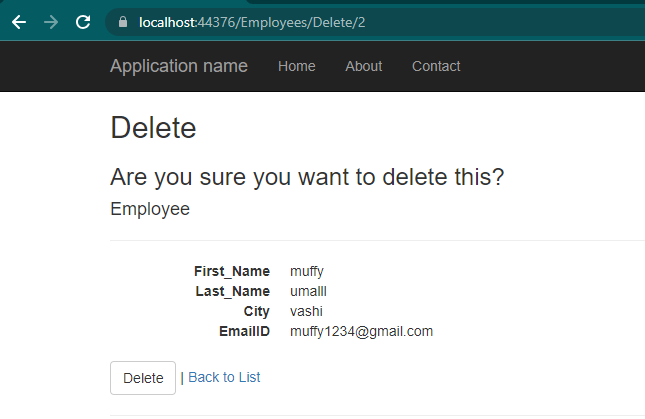
@Html.ActionLink("Back to List", "Index")

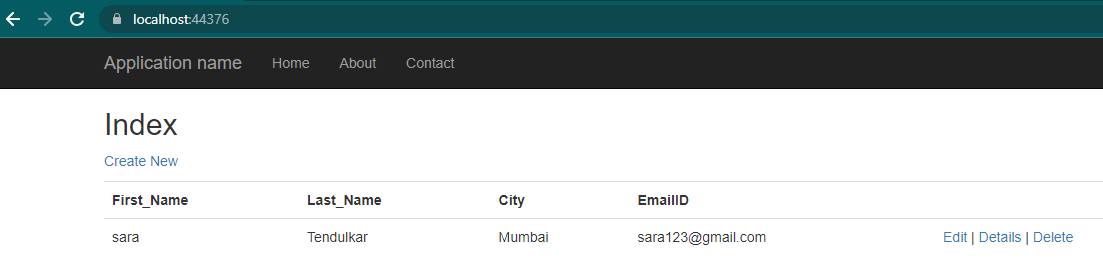
</div>

}

</div>

**Output:-**

****

****

**Practical-13**

**Q] Design Web Applications using Client Side Session Management**

**1)Hidden Field:**

**Code:-**

**WebForm1.aspx:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs" Inherits="Hidden\_Field.WebForm2" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

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

<br />

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

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

<br />

<br />

<asp:Label ID="Label3" runat="server" Text="Branch:"></asp:Label>

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

<br />

<br />

<asp:Button ID="Button2" runat="server" OnClick="Button2\_Click"

Text="Button"/>

<br />

<br />

<asp:Label ID="Label4" runat="server" Text="Label"></asp:Label>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:Label ID="Label5" runat="server" Text="Label"></asp:Label>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:Label ID="Label6" runat="server" Text="Label"></asp:Label>

<br />

<asp:HiddenField ID="HiddenField1" runat="server" />

<asp:HiddenField ID="HiddenField2" runat="server" />

<asp:HiddenField ID="HiddenField3" runat="server" />

<br />

</div>

</form>

</body>

</html>

**WebForm1.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Hidden\_Field

{

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

{

protected void Page\_Load(object sender, EventArgs e)

{

String value1 = Request.Form["HiddenField1"];

String value2 = Request.Form["HiddenField2"];

String value3 = Request.Form["HiddenField3"];

Label4.Text = value1;

Label5.Text = value2;

Label6.Text = value3;

}

protected void Button2\_Click(object sender, EventArgs e)

{

HiddenField1.Value = TextBox1.Text;

HiddenField2.Value = TextBox2.Text;

HiddenField3.Value = TextBox3.Text;

Response.Write(HiddenField1.Value);

Response.Write(HiddenField2.Value);

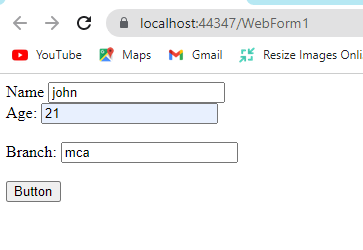
Response.Write(HiddenField3.Value);

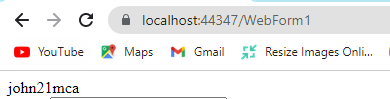
}

}

}

**Output:-**





**2) Cookies:**

**WebForm3.aspx:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs" Inherits="Hidden\_Field.WebForm3" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

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

<br />

<br />

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

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

<br />

<br />

<asp:Label ID="Label3" runat="server" Text="Branch:"></asp:Label>

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

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click"

Text="Submit" style="height: 26px"

/>

</div>

</form>

</body>

</html>

**WebForm3.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Hidden\_Field

{

public partial class WebForm3 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

HttpCookie cookie = new HttpCookie("userinformation");

cookie["Name"] = TextBox1.Text;

cookie["Age"] = TextBox2.Text;

cookie["Branch"] = TextBox3.Text;

Response.Cookies.Add(cookie);

Response.Redirect("WebForm4.aspx");

}

}

}

**WebForm4.aspx:**

Top of Form

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm4.aspx.cs" Inherits="Hidden\_Field.WebForm4" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

<br />

<br />

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

<br />

<br />

<asp:Label ID="Label3" runat="server" Text="Label"></asp:Label>

</div>

</form>

</body>

</html>

**WebForm4.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Hidden\_Field

{

publicpartialclassWebForm4 : System.Web.UI.Page

{

protectedvoid Page\_Load(object sender, EventArgs e)

{

HttpCookie cookie1 = Request.Cookies["userinformation"];

Label1.Text = cookie1["Name"];

Label2.Text = cookie1["Age"];

Label3.Text = cookie1["Branch"];

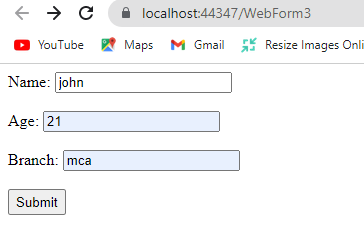
}

}

}

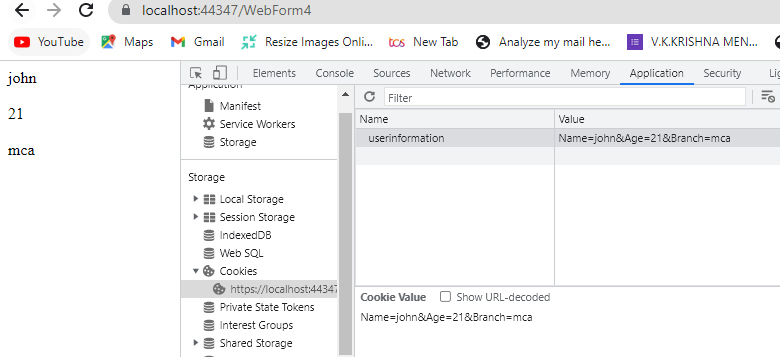
**OUTPUT:-**

Before Submitting



After Submitting

Cookies Generated



**3) Query Strings:**

**WebForm5.aspx:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm5.aspx.cs" Inherits="Hidden\_Field.WebForm5" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

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

<br />

<br />

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

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

<br />

<br />

<asp:Label ID="Label3" runat="server" Text="Branch:"></asp:Label>

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

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click"

Text="Submit"/>

</div>

</form>

</body>

</html>

**WebForm5.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Hidden\_Field

{

public partial class WebForm5 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

Response.Redirect("WebForm6.aspx?Name=" + TextBox1.Text + "&Age="

+TextBox2.Text + "&Branch=" + TextBox3.Text);

}

}

}

**WebForm6.aspx.cs:**

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Hidden\_Field

{

public partial class WebForm6 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

String Name = Request.QueryString["Name"];

int Age = int.Parse(Request.QueryString["Age"]);

String Branch = Request.QueryString["Branch"];

Response.Write("Name: " + Name + "</br> Age: " + Age + "</br> Branch: "

+Branch);

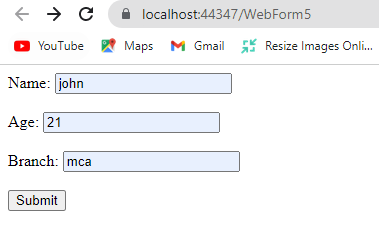
}

}

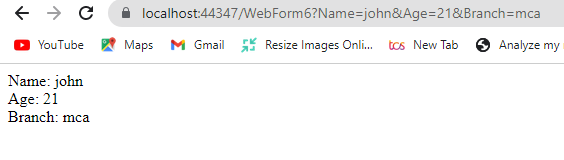
}

**OUTPUT:-**

Before Submitting



After Submitting



**4)ViewState:**

**ViewState.aspx:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="viewstate.aspx.cs" Inherits="Hidden\_Field.viewstate" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

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

<br />

<br />

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

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

<br />

<br />

<asp:Label ID="Label3" runat="server" Text="Branch:"></asp:Label>

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

<br />

<br />

<asp:Label ID="Label4" runat="server"></asp:Label>

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Button"

/>

</div>

</form>

</body>

</html>

**ViewState.aspx.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Hidden\_Field

{

public partial class viewstate : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

ViewState["Name"] = TextBox1.Text;

ViewState["Age"] = TextBox2.Text;

ViewState["Branch"] = TextBox3.Text;

Label4.Text += "{ " + (String)ViewState["Name"] + ", " +

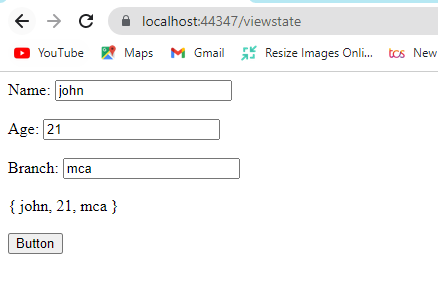
(String)ViewState["Age"] + ", " + (String)ViewState["Branch"] + " }";

}

}

}

**Output:-**



**Practical-14**

**Q] Design Web Applications using Server Side Session Management Techniques.**

**1)Session State:**

**Code:-**

**WebForm1.aspx:**

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

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

<br />

<br />

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

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

<br />

<br />

<asp:Label ID="Label3" runat="server" Text="Branch:"></asp:Label>

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

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Submit"

/>

</div>

</form>

</body>

</html>

**WebForm1.aspx.cs:**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Web;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespace Server

{

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

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

Session["Name"] = TextBox1.Text;

Session["Age"] = TextBox2.Text;

Session["Branch"] = TextBox3.Text;

Response.Redirect("WebForm2.aspx");

}

}

}

**WebForm2.aspx:**

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

<br />

<br />

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

<br />

<br />

<asp:Label ID="Label3" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

**WebForm2.aspx.cs:**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Web;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespace Server

{

public partial class WebForm2 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (Session["Name"] != null || Session["Branch"] != null || Session["Age"] !=null)

{

Label1.Text = "Name: " + Session["Name"].ToString();

Label2.Text = "Age: " + Session["Age"].ToString();

Label3.Text = "Branch: " + Session["Branch"].ToString();

}

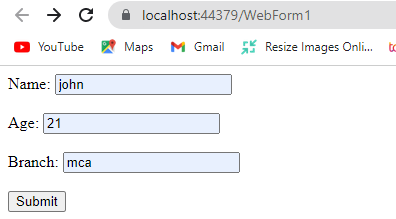
}

}

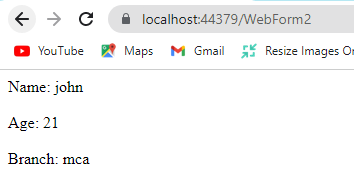
}

**OUTPUT: -**

Before Submitting



After Submitting



**2)Application State:**

**Code:-**

**WebForm3.aspx:**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="WebForm3.aspx.cs"Inherits="Server.WebForm3"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>-

<body>

<form id="form1"runat="server"> 6

<div>

<asp:LabelID="Label1"runat="server"Text="Name:"></asp:Label>

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

<br/>

<br/>

<asp:LabelID="Label2"runat="server"Text="Age:"></asp:Label>

<asp:TextBoxID="TextBox2"runat="server"></asp:TextBox>

<br/>

<br/>

<asp:LabelID="Label3"runat="server"Text="Branch"></asp:Label>

<asp:TextBoxID="TextBox3"runat="server"></asp:TextBox>

<br/>

<br/>

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

"Submit"/>

</div>

</form>

</body>

</html>

**WebForm3.aspx.cs:**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Web;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespace Server

{

publicpartialclassWebForm3 : System.Web.UI.Page

{

protectedvoidPage\_Load(object sender, EventArgs e)

{

}

protectedvoid Button1\_Click(object sender, EventArgs e)

{

Application["Name"] = TextBox1.Text;

Application["Age"] = TextBox2.Text;

Application["Branch"] = TextBox3.Text;

Response.Redirect("WebForm2.aspx");

}

}

}

**WebForm4.aspx:**

<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="WebForm4.aspx.cs"Inherits="Server.WebForm4"%>

<!DOCTYPEhtml>

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

<headrunat="server">

<title></title>

</head>

<body>

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

<div>

<asp:LabelID="Label1"runat="server"></asp:Label>

<br/>

<br/>

<asp:LabelID="Label2"runat="server"></asp:Label>

<br/>

<br/>

<asp:LabelID="Label3"runat="server"></asp:Label>

</div>

</form>

</body>

</html>

**WebForm4.aspx.cs:**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Web;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespace Server

{

publicpartialclassWebForm4 : System.Web.UI.Page

{

protectedvoidPage\_Load(object sender, EventArgs e)

{

Label1.Text = "Name: " + Application["Name"].ToString();

Label2.Text = "Age: " + Application["Age"].ToString();

Label3.Text = "Branch: " + Application["Branch"].ToString();

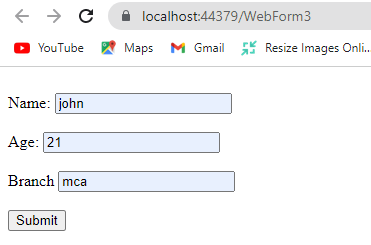
}

}

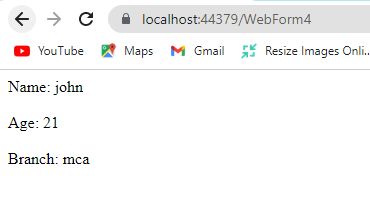
}

**OUTPUT:-**

Before Submitting



After Submitting



**Practical-15**

**Q] Design Web Application to produce and Consume a web Service.**

**Code:-**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Web;

usingSystem.Web.Services;

namespace WCF

{

/// <summary>

/// Summary description for WebService2

/// </summary>

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

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

[System.ComponentModel.ToolboxItem(false)]

// To allow this Web Service to be called from script, using ASP.NET AJAX,

uncomment the following line.

// [System.Web.Script.Services.ScriptService]

public class WebService2 : System.Web.Services.WebService

{

[WebMethod]

public string HelloWorld()

{

return "Hello World";

}

[WebMethod]

public double addition(double a, double b)

{ return a + b; }

[WebMethod]

public double subtraction(double a, double b)

{ return a - b; }

[WebMethod]

public double multiplication(double a, double b)

{ return a \* b; }

[WebMethod]

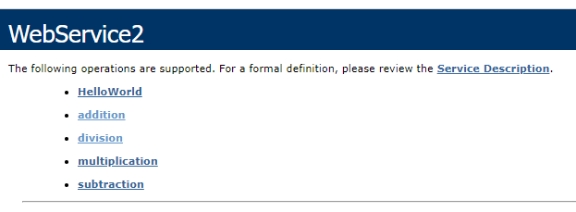
public double division(double a, double b)

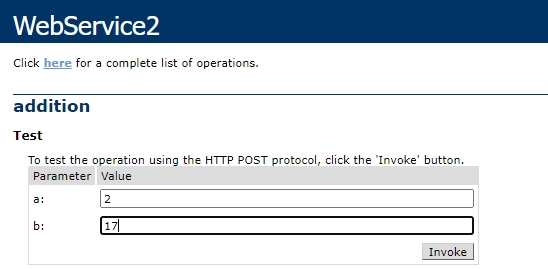
{ return a / b; }

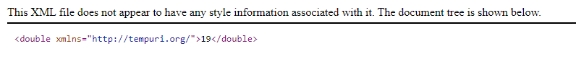
}

}

**Output:-**



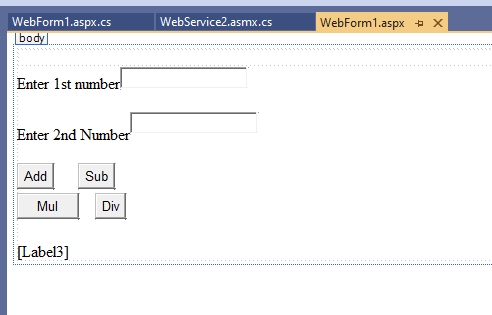




**Practical-16**

**Q] Design Web Application to produce and Consume a WCF Service.**

**Design:-**



**Code:-**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Web;

usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespace WCF

{

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

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

ServiceReference1.WebService2SoapClient obj = new

ServiceReference1.WebService2SoapClient();

double a = Convert.ToDouble(TextBox1.Text);

double b = Convert.ToDouble(TextBox2.Text);

doubleans = obj.addition(a, b);

Label3.Text = "Result:" + ans.ToString();

}

protected void Button2\_Click(object sender, EventArgs e)

{

ServiceReference1.WebService2SoapClient obj = new

ServiceReference1.WebService2SoapClient();

double a = Convert.ToDouble(TextBox1.Text);

double b = Convert.ToDouble(TextBox2.Text);

doubleans = obj.subtraction(a, b);

Label3.Text = "Result:" + ans.ToString();

}

protected void Button3\_Click(object sender, EventArgs e)

{

ServiceReference1.WebService2SoapClient obj = new

ServiceReference1.WebService2SoapClient();

double a = Convert.ToDouble(TextBox1.Text);

double b = Convert.ToDouble(TextBox2.Text);

doubleans = obj.multiplication(a, b);

Label3.Text = "Result:" + ans.ToString();

}

protected void Button4\_Click(object sender, EventArgs e)

{

ServiceReference1.WebService2SoapClient obj = new

ServiceReference1.WebService2SoapClient();

double a = Convert.ToDouble(TextBox1.Text);

double b = Convert.ToDouble(TextBox2.Text);

doubleans = obj.division(a, b);

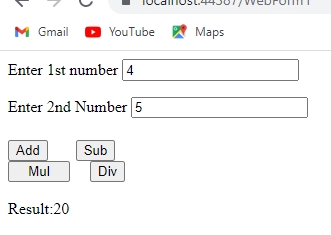
Label3.Text = "Result:" + ans.ToString();

}

}

}

**Output:-**



**Practical-17**

**Q] Design MVC based Web applications.**

**Model:**

**Employee.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

namespace MVC.Models

{

    public class Employee

    {

        public string Name { get; set; }

        public string Address { get; set; }

        public int Age { get; set; }

    }

}

**Controller:**

**HomeController.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.Mvc;

using MVC.Models;

namespace MVC.Controllers

{

    public class HomeController : Controller

    {

        // GET: Home

        public ActionResult Details()

        {

            Employee emp = new Employee()

             {

                 Address = "Seawoods,Navi Mumbai",

                 Name = "Ram",

                 Age = 22

             };

             return View(emp);

         }

     }

}

**View:**

**Details.cshtml**

@model MVC.Models.Employee

@{

    ViewBag.Title = "Details";

}

<h2>Employee Details</h2>

<table style="font-family:Arial">

    <tr>

        <td>

            <b>Employee Name:</b>

        </td>

        <td>@Model.Name</td>

    </tr>

    <tr>

        <td>

            <b>Employee Age:</b>

        </td>

        <td>@Model.Age</td>

    </tr>

    <tr>

        <td>

            <b>Employee Address:</b>

        </td>

        <td>@Model.Address</td>

    </tr>

</table>

**Output:-**

