1. **Create a Web Page in ASP.NET to display “Hello World”.**

# Ans.

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm15.aspx.cs" Inherits="WebApplication2.WebForm15" %>

<!DOCTYPE html>

<html xmln[s="h](http://www.w3.org/1999/xhtml)ttp[://www.w3.org/1999/xhtml">](http://www.w3.org/1999/xhtml)

<head runat="server">

<title></title>

</head>

<body>

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

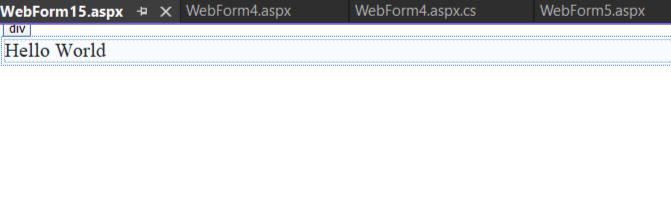
<div>

Hello World</div>

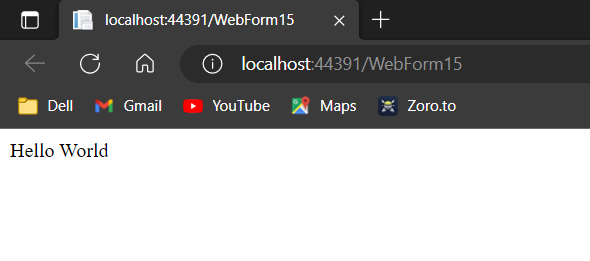
</form>

</body>

</html> Design:



Output:



## Create a Web page in ASP.NET to display the list of courses in IITM.

Ans.

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs" Inherits="WebApplication2.WebForm2" %>

<!DOCTYPE html>

<html xmln[s="h](http://www.w3.org/1999/xhtml)ttp[://www.w3.org/1999/xhtml">](http://www.w3.org/1999/xhtml)

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Courses in IITM<br />

&nbsp;<asp:BulletedList ID="BulletedList1" runat="server" DisplayMode="LinkButton" OnClick="BulletedList1\_Click">

<asp:ListItem>BCA</asp:ListItem>

<asp:ListItem>BBA</asp:ListItem>

<asp:ListItem>BCOM</asp:ListItem>

<asp:ListItem>MBA</asp:ListItem>

</asp:BulletedList>

</div>

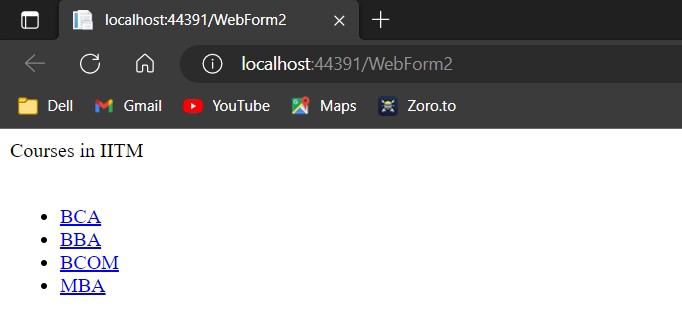
</form>

</body>

</html> Design:



Output:



## Q5. Create a web page in ASP.NET that demonstrates the use of RequiredFieldValidator.

Ans:

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm16.aspx.cs" Inherits="WebApplication2.WebForm16" %>

<!DOCTYPE html>

<html xmln[s="h](http://www.w3.org/1999/xhtml)ttp[://www.w3.org/1999/xhtml">](http://www.w3.org/1999/xhtml)

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Enter the name :&nbsp;

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

<br />

<br />

<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" BackColor="#FF9933" ControlToValidate="TextBox1" ErrorMessage="Name cannot be empty...">Mandatory Field!!</asp:RequiredFieldValidator>

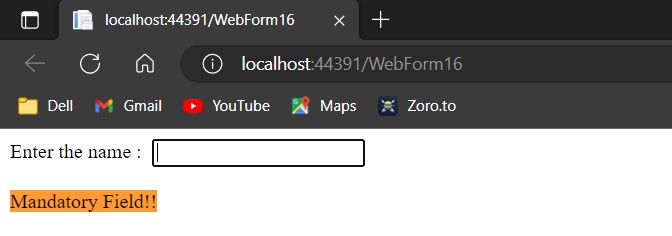
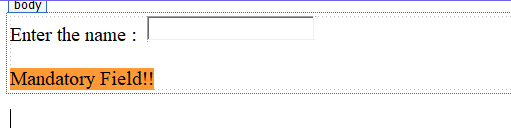
</div>

</form>

</body>

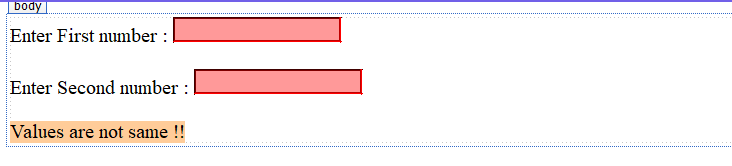
</html>

Design:



Output:

## Q6. Create a web page in ASP.NET that demonstrates the use of CompareValidator.



Ans.

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm16.aspx.cs" Inherits="WebApplication2.WebForm16" %>

<!DOCTYPE html>

<html xmln[s="h](http://www.w3.org/1999/xhtml)ttp[://www.w3.org/1999/xhtml">](http://www.w3.org/1999/xhtml)

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Enter First number :&nbsp;<asp:TextBox ID="TextBox2" runat="server" BackColor="#FF9999" BorderColor="Red"></asp:TextBox>

<br />

<br />

Enter Second number :&nbsp;<asp:TextBox ID="TextBox3" runat="server" BackColor="#FF9999" BorderColor="Red"></asp:TextBox>

<br />

<br />

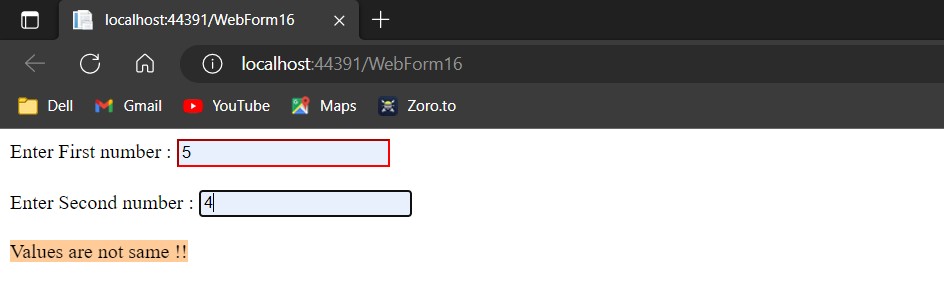
<asp:CompareValidator ID="CompareValidator1" runat="server" BackColor="#FFCC99" ControlToCompare="TextBox2" ControlToValidate="TextBox3" ErrorMessage="Mismatch" Type="Integer">Values are not same !!</asp:CompareValidator>

</div>

</form>

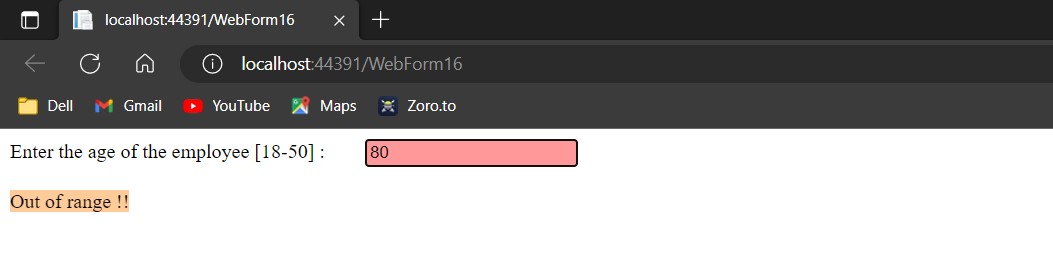
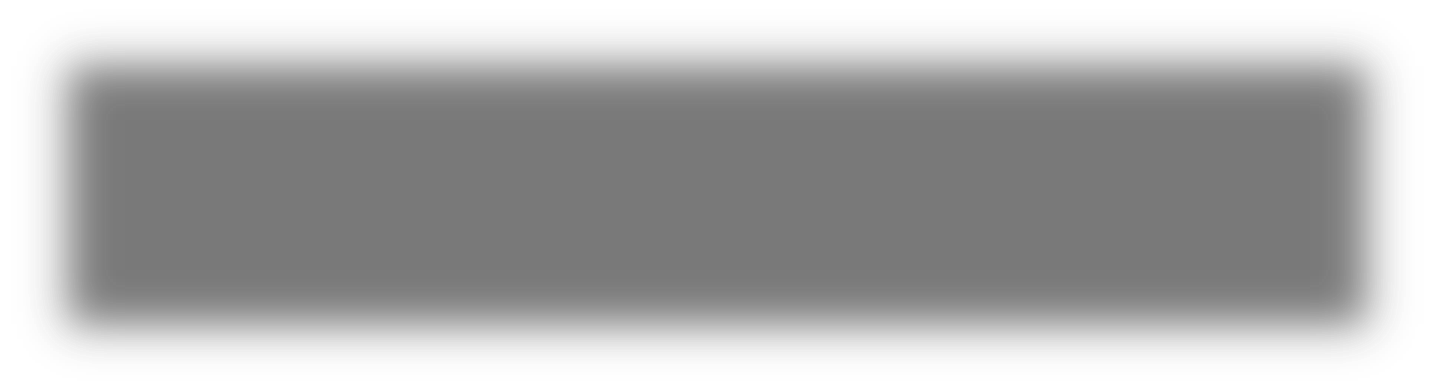
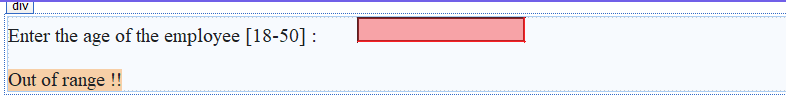
</body>

</html> Design:



Output:

## Q7.Create a web page in ASP.NET that demonstrates the use of RangeValidator.



Ans.

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm16.aspx.cs" Inherits="WebApplication2.WebForm16" %>

<!DOCTYPE html>

<html xmln[s="h](http://www.w3.org/1999/xhtml)ttp[://www.w3.org/1999/xhtml">](http://www.w3.org/1999/xhtml)

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Enter the age of the employee [18-50]

:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; <asp:TextBox ID="TextBox4" runat="server" BackColor="#FF9999" BorderColor="Red"></asp:TextBox>

<br />

<br />

<asp:RangeValidator ID="RangeValidator1" runat="server" BackColor="#FFCC99" ControlToValidate="TextBox4" ErrorMessage="RangeValidator" MaximumValue="50" MinimumValue="18" Type="Integer">Out of range !!</asp:RangeValidator>

</div>

</form>

</body>

</html> Design:

OutpuT

11

## Q8.Create a web page in ASP.NET that demonstrates the use of ValidationSummary.

Ans.

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm16.aspx.cs" Inherits="WebApplication2.WebForm16" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Enter Some Text :

<asp:TextBox ID="TextBox1" runat="server" BackColor="#FF9999" BorderColor="Red"></asp:TextBox>

<br />

<br />

<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" BackColor="#FFCC99" ControlToValidate="TextBox1" ErrorMessage="The filed can't be left blank">The Field is Mandatory !!</asp:RequiredFieldValidator>

<br />

<br />

<asp:Button ID="Button1" runat="server" BackColor="#FF9933" BorderColor="Red" Text="Validate" />

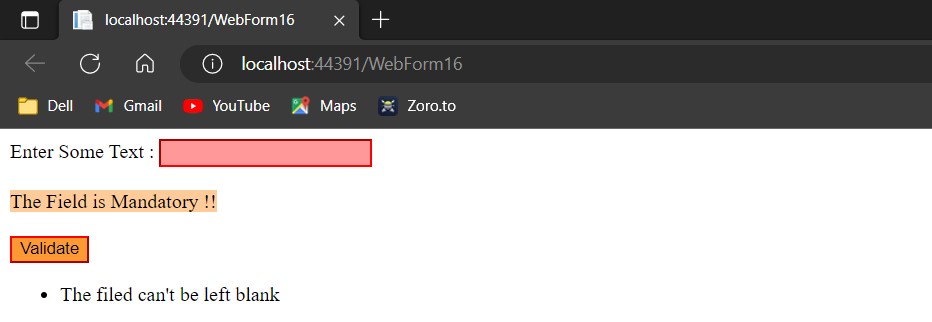
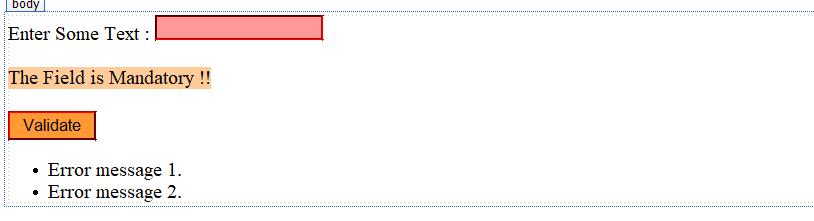
<asp:ValidationSummary ID="ValidationSummary1" runat="server" />

</div>

</form>

</body>

</html> Design:



Output:

## Q9.Create a web page in ASP.NET that demonstrates the use of CustomValidator.

Ans.

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm11.aspx.cs" Inherits="WebApplication2.WebForm11" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div id=" ">

<asp:Label ID="Label1" runat="server" Text="Password"></asp:Label> &nbsp;&nbsp;

<asp:TextBox ID="txtPassword" runat="server" Width="143px" ToolTip="Password must be between 6-12 characters and include 1 capital letter, 1 lowercase letter, and 1 number"></asp:TextBox>

<br />

<br />

<asp:CustomValidator ID="CustomValidator1" runat="server" ControlToValidate="txtPassword"

ErrorMessage="Password must be between 6-12 characters and include 1 capital letter, 1 lowercase letter, and 1 number" OnServerValidate="CustomValidator1\_ServerValidate"></asp:CustomValidator>

<br />

<br />

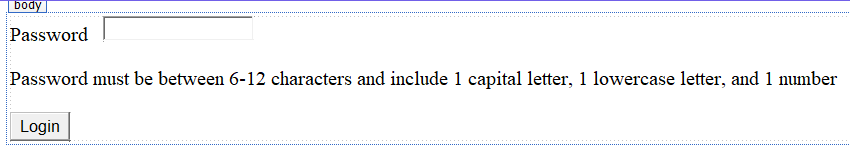
<asp:Button ID="Button1" runat="server" Text="Login" />

</div>

</form>

</body>

</html> Design:



C# code:

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

namespace WebApplication2

{

public partial class WebForm11 : System.Web.UI.Page

{

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

{

}

protected void CustomValidator1\_ServerValidate(object source, ServerValidateEventArgsargs)

{

stringinputData = args.Value; args.IsValid = false;

if (inputData.Length< 6 || inputData.Length> 12) return; boolupperCase = false;

foreach (char ch in inputData)

{

if (ch>= 'A' &&ch<= 'Z')

{

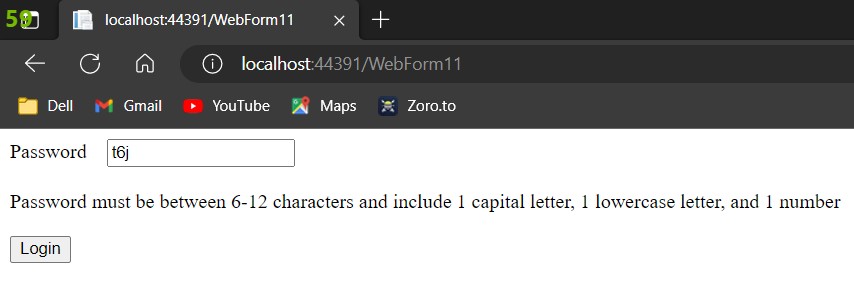
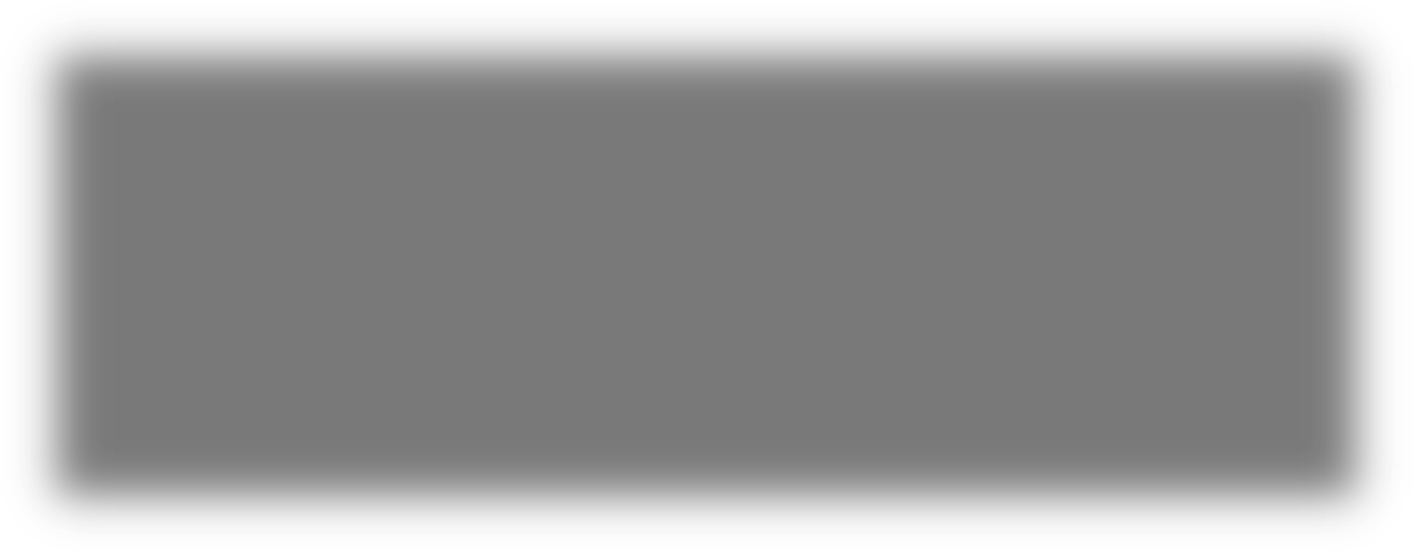
upperCase = true; break;

}

}

if (!upperCase) return; boollowerCase = false; foreach (char ch in inputData)

{



if (ch>= 'a' &&ch<= 'z')

{

lowerCase = true; break;

}

}

if (!lowerCase) return; bool number = false;

foreach (char ch in inputData)

{

if (ch>= '0' &&ch<= '9')

{

number = true; break;

}

}

if (!number) return; args.IsValid = true;

}

}

}

Output:

## Q10.Write a program to use FileUpload control.

Ans.

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm17.aspx.cs" Inherits="WebApplication2.WebForm17" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

File control

<br />

<br />

<asp:FileUpload ID="FileUpload1" runat="server" />

<br />

<br />

<asp:RegularExpressionValidator ID="FileUpLoadValidator" runat="server" ErrorMessage="Upload Jpegs and Gifs only."

ValidationExpression="^(([a-zA- Z]:)|(\\{2}\w+)\$?)(\\(\w[\w].\*))(.jpg|.JPG|.gif|.GIF)$" ControlToValidate="FileUpload1">

</asp:RegularExpressionValidator> &nbsp;

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Upload File" />

<br />

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

</div>

</form>

</body>

</html> Design:

C# code:

using System; usingSystem.Collections.Generic; usingSystem.Linq; usingSystem.Reflection.Emit; usingSystem.Web; usingSystem.Web.UI; usingSystem.Web.UI.WebControls;

namespace WebApplication2

{

public partial class WebForm17 : System.Web.UI.Page

{

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

{

}

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

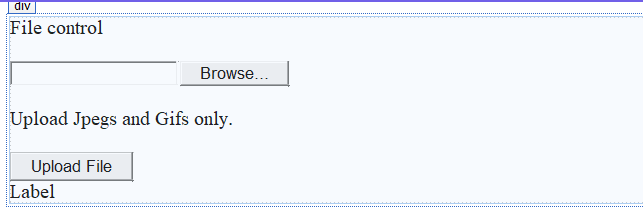
{

if (FileUpload1.HasFile)

{

FileUpload1.SaveAs(@"C:\temp\" + FileUpload1.FileName); Label1.Text = "File Uploaded: " + FileUpload1.FileName;

}



else

{

}

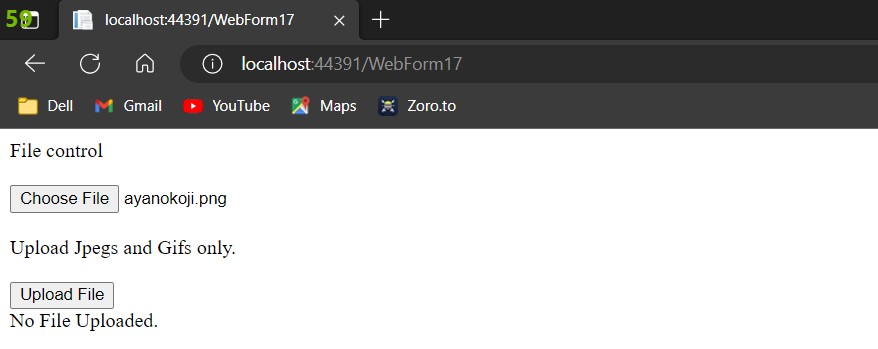
}

}

}

Label1.Text = "No File Uploaded.";

Output:



## Q11. Write a program to display advertisements using AdRotator control.

Ans. WebForm1.aspx WebForm1.aspx

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:AdRotator ID="AdRotator1" runat="server" AdvertisementFile="~/Ads.xml"

/>

</div>

</form>

</body>

</html>

Ads.xml

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

<Advertisements>

<Ad>

<ImageUrl>a4.jpg</ImageUrl>

<NavigateUrl>https:/[/www.p](http://www.popularmechanics.com/technology/gear/g19863873/b)o[pularmechanics.com/technology/gear/g19863873/b](http://www.popularmechanics.com/technology/gear/g19863873/b) est-cheap-watches/</NavigateUrl>

<AlternateText>Low Cost Watches</AlternateText>

<Keyword>Watch</Keyword>

<Impressions>50</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a5.jpg</ImageUrl>

<NavigateUrl>https:/[/www.t](http://www.thetrendspotter.net/20-top-luxury-watch-)h[etrendspotter.net/20-top-luxury-watch-](http://www.thetrendspotter.net/20-top-luxury-watch-)

brands-know/</NavigateUrl>

<AlternateText>Luxury Watches</AlternateText>

<Keyword>Watch</Keyword>

<Impressions>5</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a1.jpg</ImageUrl>

<NavigateUrl>https:/[/www.t](http://www.theverge.com/2013/4/26/4268982/idc-q1-2013-)h[everge.com/2013/4/26/4268982/idc-q1-2013-](http://www.theverge.com/2013/4/26/4268982/idc-q1-2013-)

smartphone-market-data</NavigateUrl>

<AlternateText>Smart Phones</AlternateText>

<Keyword>Smart Phone</Keyword>

<Impressions>5</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a2.jpg</ImageUrl>

<NavigateUrl>https://in.pcmag.com/smartphones/38003/the-best-android-

phones-for-2020</NavigateUrl>

<AlternateText>Best Android Phones</AlternateText>

<Keyword>Smart Phone</Keyword>

<Impressions>50</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a6.jpg</ImageUrl>

<NavigateUrl>https:/[/www.t](http://www.techradar.com/in/news/best-apple-)e[chradar.com/in/news/best-apple-](http://www.techradar.com/in/news/best-apple-)

watch</NavigateUrl>

<AlternateText>Best Apple Watches</AlternateText>

<Keyword>Watch</Keyword>

<Impressions>50</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a3.jpg</ImageUrl>

<NavigateUrl>https:/[/www.b](http://www.bajajfinserv.in/insights/8gb-ram-mobile-)a[jajfinserv.in/insights/8gb-ram-mobile-](http://www.bajajfinserv.in/insights/8gb-ram-mobile-)

phone</NavigateUrl>

<AlternateText>8GB RAM Mobile Phones</AlternateText>

<Keyword>Smart Phone</Keyword>

<Impressions>50</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

</Advertisements> Output

## Q12. Create a web form to display students’ data in GridView.

Ans.<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs" Inherits="WebApplication3.WebForm2" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False" DataKeyNames="ID" DataSourceID="SqlDataSource1" OnSelectedIndexChanged="GridView1\_SelectedIndexChanged">

<Columns>

<asp:BoundFieldDataField="ID" HeaderText="ID" ReadOnly="True" SortExpression="ID" />

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

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

<asp:BoundFieldDataField="Enroll. no." HeaderText="Enroll. no." SortExpression="Enroll. no." />

<asp:BoundFieldDataField="Course" HeaderText="Course" SortExpression="Course"

/>

</Columns>

</asp:GridView>

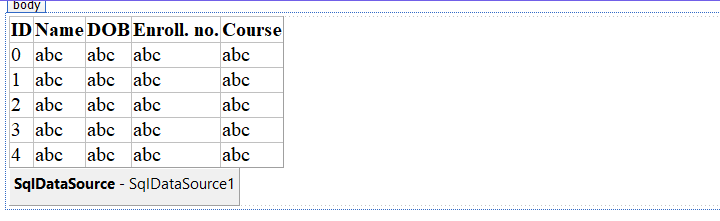
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$ ConnectionStrings:StudentsConnectionString%>" SelectCommand="SELECT \* FROM [Table]"></asp:SqlDataSource>

</div>

</form>

</body>

</html> Design:



C# code:

using System; usingSystem.Collections.Generic; usingSystem.Linq; usingSystem.Web; usingSystem.Web.UI; usingSystem.Web.UI.WebControls; usingSystem.Data; usingSystem.Data.SqlClient;

namespace WebApplication3

{

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

{

SqlConnection con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\satra\OneDrive\Docu ments\Students.mdf;Integrated Security=True;Connect Timeout=30");

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

{}

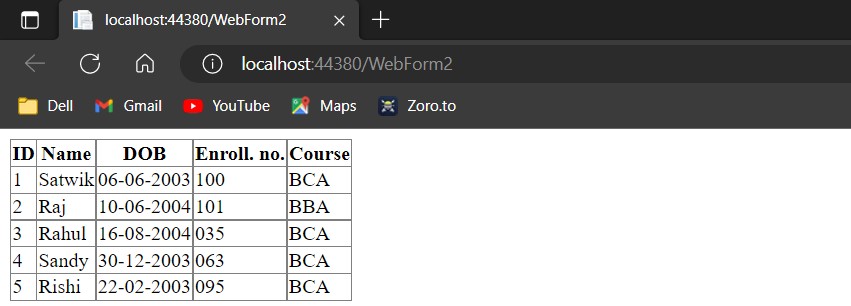
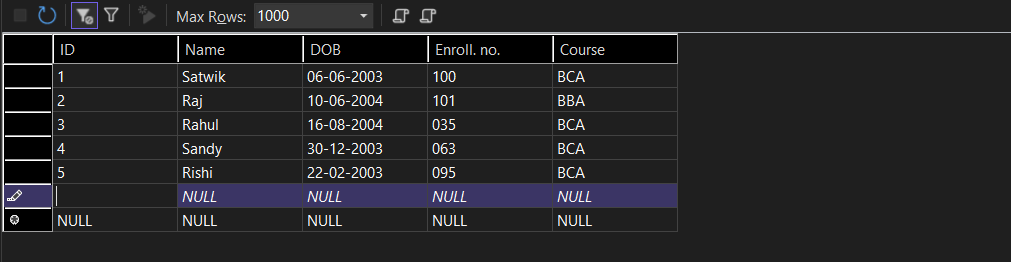
protected void GridView1\_SelectedIndexChanged(object sender, EventArgs e)

{}

}

}

Table:



Output:

## Q13. . Create a web page that displays four button with labels – Show Data, Insert Record, Update Record, and Delete Record respectively. Add four web forms that perform insert, update, delete, and select operations on a database table when user clicks a button on the first web page

**Ans.**

WebForm1.aspx

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<br />

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

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

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

/> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

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

/>

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

<asp:Button ID="Button3" runat="server" OnClick="Button3\_Click" Text="Update" />

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

<asp:Button ID="Button4" runat="server" OnClick="Button4\_Click" Text="Delete"

/>

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

<asp:Button ID="Button5" runat="server" Text="Generate Report" />

<br />

<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 DatabaseApplication

{

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

{

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

{

}

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

{

Response.Redirect("WebForm2.aspx");

}

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

{

Response.Redirect("WebForm3.aspx");

}

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

{

Response.Redirect("WebForm4.aspx");

}

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

{

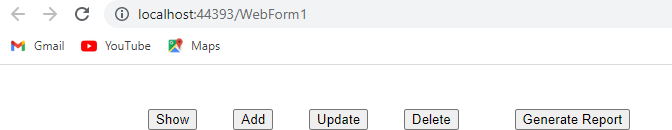
Response.Redirect("WebForm5.aspx");

}

}

}

Output



WebForm2.aspx

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

</asp:GridView>

</div>

</form>

</body>

</html>

WebForm2.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;

using System.Data.SqlClient; namespace DatabaseApplication

{

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

{

SqlConnection con; SqlDataAdapter da; DataSet ds;

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

{

con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\USER\Documents\em p.mdf;Integrated Security=True;Connect Timeout=30");

con.Open();

da = new SqlDataAdapter("select \* from Employee", con); ds = new DataSet();

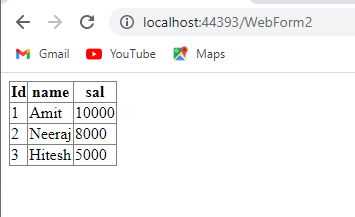
da.Fill(ds); GridView1.DataSource = ds; GridView1.DataBind(); con.Close();

}

}

}

Output



WebForm3.aspx

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; Insert a Record<br />

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; Employee ID&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;

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

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; Employee

Name&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nb sp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

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

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; Salary&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nb sp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

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

<br />

<br />

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

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

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Insert Record" />

</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; using System.Data;

using System.Data.SqlClient; namespace DatabaseApplication

{

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

{

SqlConnection con; SqlCommand cmd;

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

{

}

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

{

con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\USER\Documents\Em pDb.mdf;Integrated Security=True;Connect Timeout=30");

con.Open();

int a, b; String c;

a = Int32.Parse(TextBox1.Text); // emp\_id c = TextBox2.Text; //ename

b = Int32.Parse(TextBox3.Text); //salary

String str = "insert into Employee values('"+a+"', '"+c+"', '"+b+"')"; cmd = new SqlCommand(str, con);

int n = cmd.ExecuteNonQuery();

if (n > 0)

Response.Write("Record Inserted Successfuly"); else

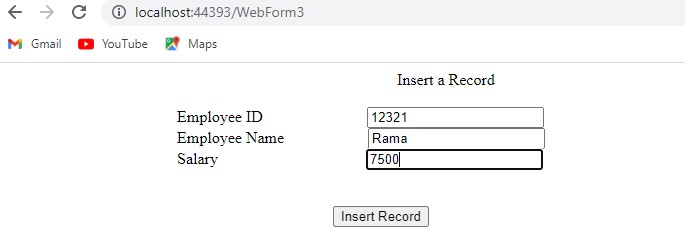
Response.Write("Record not inserted");

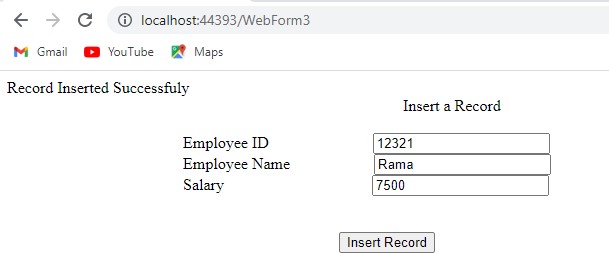
}

}

}

Output





WebForm4.aspx

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<center><h1>Update Record</h1></center>

<br /><br />

Enter Employee ID:

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

<br /> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<br /> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

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

<br />

<br />

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

<br />

Salary:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;

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

<br />

<br /> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:Button ID="Button2" runat="server" OnClick="Button2\_Click" Text="Update" />

</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; using System.Data;

using System.Data.SqlClient; namespace DatabaseApplication

{

public partial class WebForm4 : System.Web.UI.Page

{

SqlConnection con; SqlCommand cmd; SqlDataReader dr; int empid, salary; String ename;

public void CreateConnection()

{

con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\USER\Documents\Em pDb.mdf;Integrated Security=True;Connect Timeout=30");

con.Open();

}

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

{

}

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

{

CreateConnection(); ename = TextBox2.Text;

salary = Int32.Parse(TextBox3.Text);

String str1 = "update Employee set ename='"+ename+"', salary='"+salary+"' where e\_id="+empid;

cmd = new SqlCommand(str1, con); int n = cmd.ExecuteNonQuery();

if (n > 0)

Response.Write("Record Update Successfully."); else

Response.Write("Record not updated.");

}

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

{

CreateConnection();

empid = Int32.Parse(TextBox1.Text);

String str = "select \* from Employee where e\_id=" + empid; cmd = new SqlCommand(str, con);

dr = cmd.ExecuteReader(); while(dr.Read())

{

ename = dr[1].ToString();

salary = Int32.Parse(dr[2].ToString());

}

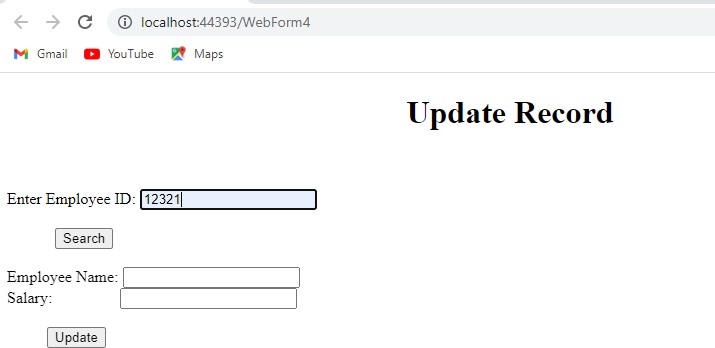
TextBox2.Text = ename; TextBox3.Text = salary.ToString(); con.Close();

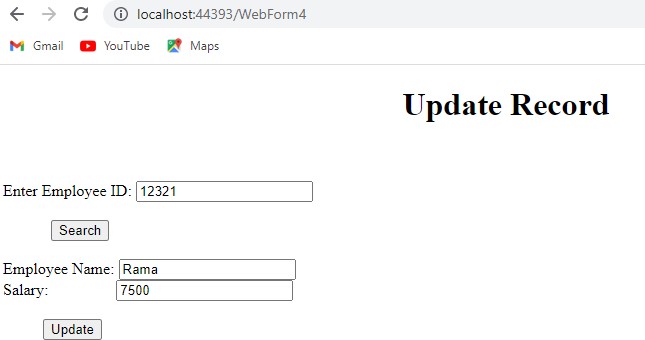
}

}

}

Output





WebForm5.aspx

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp; Enter the Employee Id to Delete

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

<br />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n bsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

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

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Click to Delete" />

<br />

<br />

<br />

</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; using System.Data;

using System.Data.SqlClient; namespace DatabaseApplication

{

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

{

SqlConnection con; SqlCommand cmd;

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

{

con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\USER\Documents\Em pDb.mdf;Integrated Security=True;Connect Timeout=30");

con.Open();

}

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

{

String query = "delete from employee where e\_id=" + TextBox1.Text; cmd = new SqlCommand(query,con);

int n = cmd.ExecuteNonQuery(); if (n > 0)

Response.Write("record deleted successfully"); else

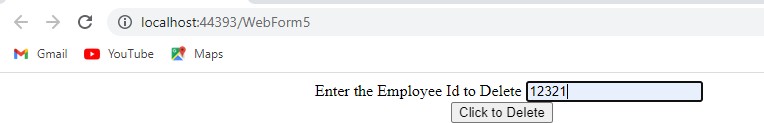
Response.Write("record NOT found");

}

}

}

Output





## Q14. Create a Web page that displays list of courses using bulleted list. When user clicks on any item on the list, total number of courses should be displayed in a label.

**Ans.**

WebForm1.aspx

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Courses in IITM:<br />

<br />

<asp:BulletedList ID="BulletedList1" runat="server" DisplayMode="LinkButton" OnClick="BulletedList1\_Click">

<asp:ListItem>BCA</asp:ListItem>

<asp:ListItem>B.Com. (H)</asp:ListItem>

<asp:ListItem>BBA</asp:ListItem>

<asp:ListItem>MBA</asp:ListItem>

<asp:ListItem>BJMC</asp:ListItem>

</asp:BulletedList>

<br />

<br />

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

</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 ListControlExamples

{

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

{

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

{

}

protected void BulletedList1\_Click(object sender, BulletedListEventArgs e)

{

String str = ""; Response.Write(sender.ToString()); int counter = 0;

foreach(ListItem li in BulletedList1.Items)

{

counter++;

}

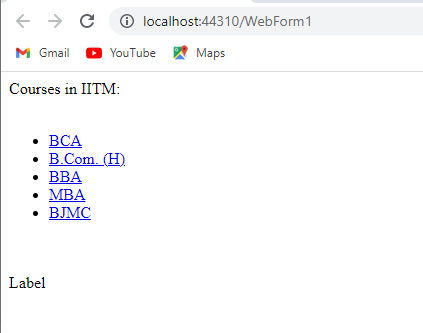
str = "Total Number of Courses are " + counter; Label1.Text = str;

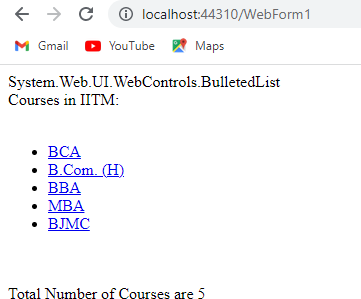
}

}

}

Output





## Q15. Create a web page that displays a drop down list of color names. When user selects a color name, the background of the web page should be changed to that color.

Source code:

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs" Inherits="WebApplication3.WebForm3" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body id="bd" runat="server">

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

<div>

<asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="True" OnSelectedIndexChanged="DropDownList1\_SelectedIndexChanged">

<asp:ListItem>Red</asp:ListItem>

<asp:ListItem>Yellow</asp:ListItem>

<asp:ListItem>Green</asp:ListItem>

<asp:ListItem>Blue</asp:ListItem>

<asp:ListItem>Purple</asp:ListItem>

</asp:DropDownList>

</div>

</form>

</body>

</html> Design:



C# code:

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

namespace WebApplication3

{

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

{

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

{}

protected void DropDownList1\_SelectedIndexChanged(object sender, EventArgs e)

{

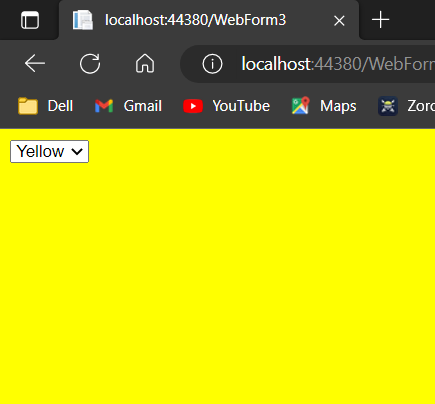
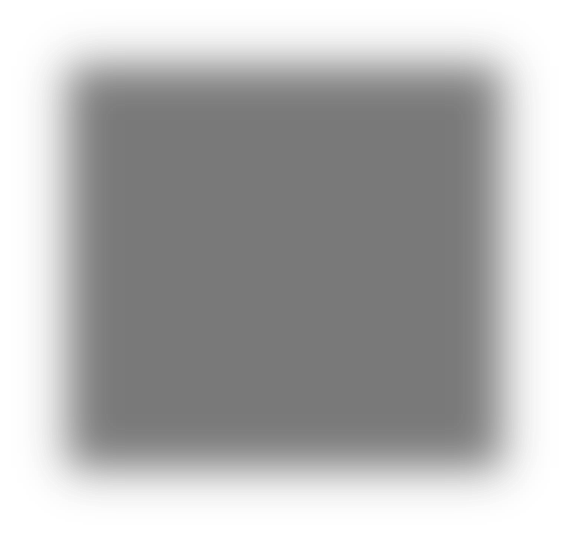
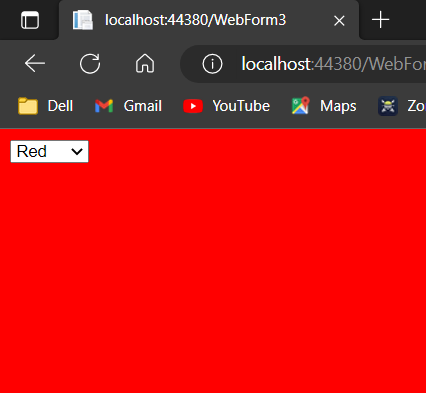
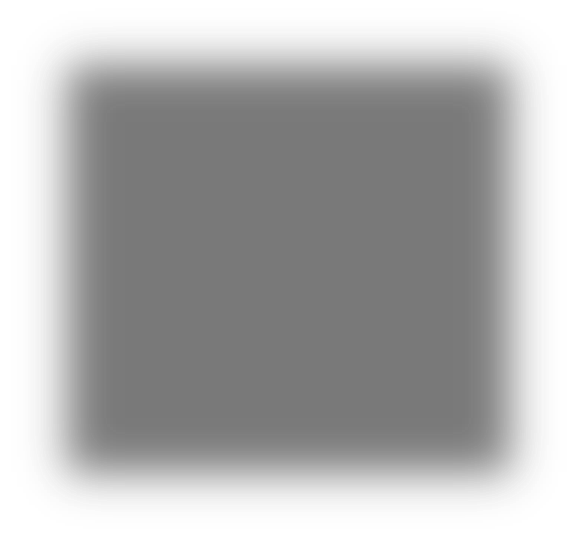
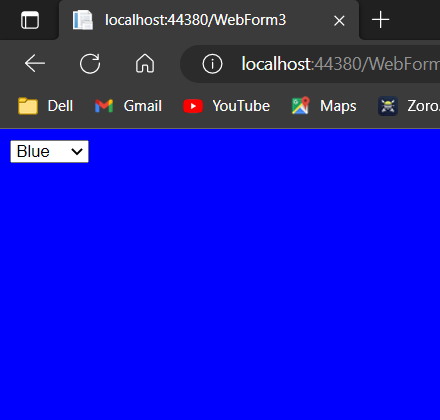
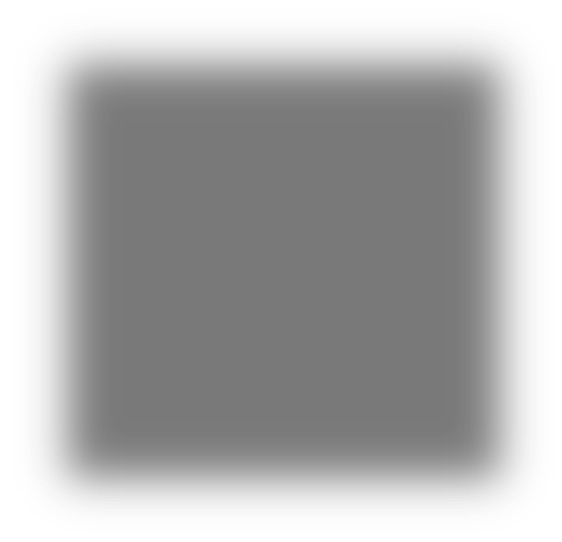
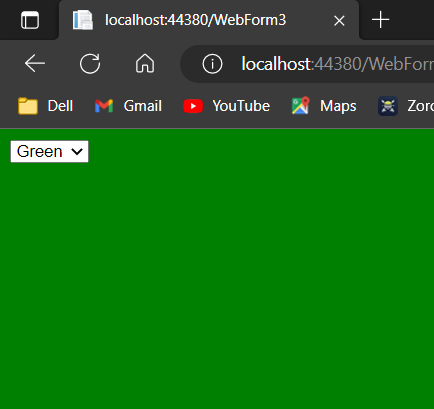
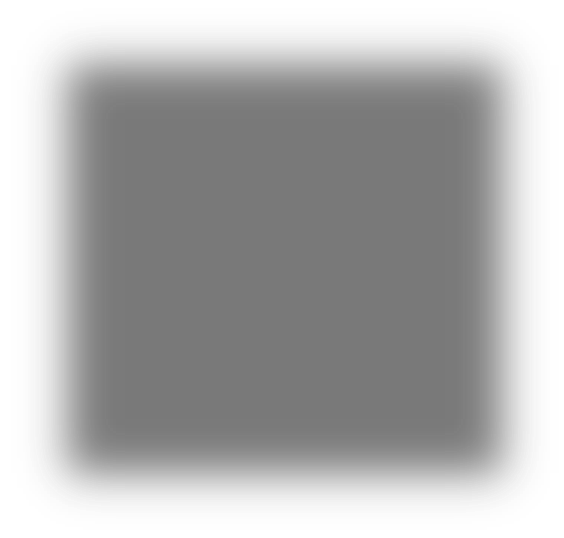
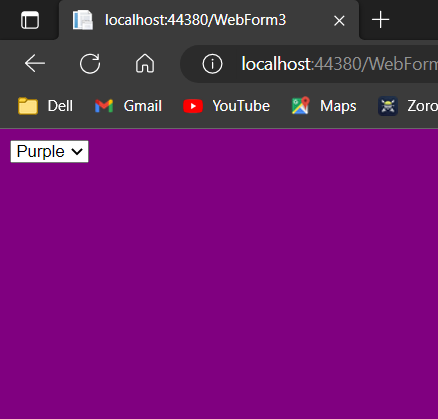
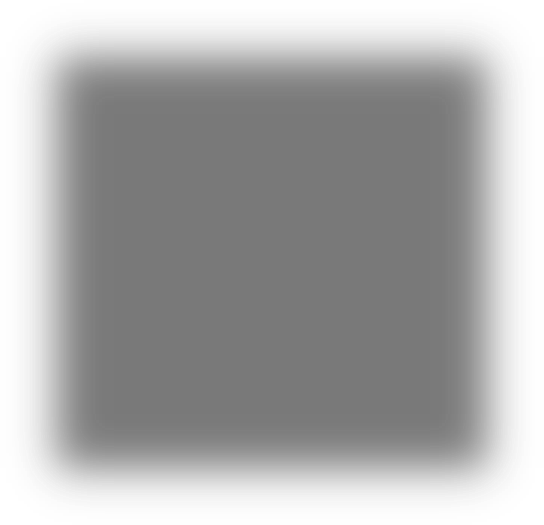
bd.Attributes.Add("bgcolor", DropDownList1.SelectedItem.Text);

}

}

}

Output:



## Q11. Write a program to display advertisements using AdRotator control.

Ans. WebForm1.aspx WebForm1.aspx

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

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:AdRotator ID="AdRotator1" runat="server" AdvertisementFile="~/Ads.xml"

/>

</div>

</form>

</body>

</html>

Ads.xml

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

<Advertisements>

<Ad>

<ImageUrl>a4.jpg</ImageUrl>

<NavigateUrl>https:/[/www.p](http://www.popularmechanics.com/technology/gear/g19863873/b)o[pularmechanics.com/technology/gear/g19863873/b](http://www.popularmechanics.com/technology/gear/g19863873/b) est-cheap-watches/</NavigateUrl>

<AlternateText>Low Cost Watches</AlternateText>

<Keyword>Watch</Keyword>

<Impressions>50</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a5.jpg</ImageUrl>

<NavigateUrl>https:/[/www.t](http://www.thetrendspotter.net/20-top-luxury-watch-)h[etrendspotter.net/20-top-luxury-watch-](http://www.thetrendspotter.net/20-top-luxury-watch-)

brands-know/</NavigateUrl>

<AlternateText>Luxury Watches</AlternateText>

<Keyword>Watch</Keyword>

<Impressions>5</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a1.jpg</ImageUrl>

<NavigateUrl>https:/[/www.t](http://www.theverge.com/2013/4/26/4268982/idc-q1-2013-)h[everge.com/2013/4/26/4268982/idc-q1-2013-](http://www.theverge.com/2013/4/26/4268982/idc-q1-2013-)

smartphone-market-data</NavigateUrl>

<AlternateText>Smart Phones</AlternateText>

<Keyword>Smart Phone</Keyword>

<Impressions>5</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a2.jpg</ImageUrl>

<NavigateUrl>https://in.pcmag.com/smartphones/38003/the-best-android-

phones-for-2020</NavigateUrl>

<AlternateText>Best Android Phones</AlternateText>

<Keyword>Smart Phone</Keyword>

<Impressions>50</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a6.jpg</ImageUrl>

<NavigateUrl>https:/[/www.t](http://www.techradar.com/in/news/best-apple-)e[chradar.com/in/news/best-apple-](http://www.techradar.com/in/news/best-apple-)

watch</NavigateUrl>

<AlternateText>Best Apple Watches</AlternateText>

<Keyword>Watch</Keyword>

<Impressions>50</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

<Ad>

<ImageUrl>a3.jpg</ImageUrl>

<NavigateUrl>https:/[/www.b](http://www.bajajfinserv.in/insights/8gb-ram-mobile-)a[jajfinserv.in/insights/8gb-ram-mobile-](http://www.bajajfinserv.in/insights/8gb-ram-mobile-)

phone</NavigateUrl>

<AlternateText>8GB RAM Mobile Phones</AlternateText>

<Keyword>Smart Phone</Keyword>

<Impressions>50</Impressions>

<Width>900</Width>

<Height>300</Height>

</Ad>

</Advertisements> Output

## Q16. Create a web page that demonstrates a CheckBoxList control.

Ans.

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm4.aspx.cs" Inherits="WebApplication3.WebForm4" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

Game you like :<br />

<br />

<asp:CheckBoxList ID="CheckBoxList1" runat="server" AutoPostBack="True" OnSelectedIndexChanged="CheckBoxList1\_SelectedIndexChanged">

<asp:ListItem>God of War</asp:ListItem>

<asp:ListItem>GTA</asp:ListItem>

<asp:ListItem>Genshin Impact</asp:ListItem>

<asp:ListItem>Valorant</asp:ListItem>

<asp:ListItem>NieR</asp:ListItem>

</asp:CheckBoxList>

<br />

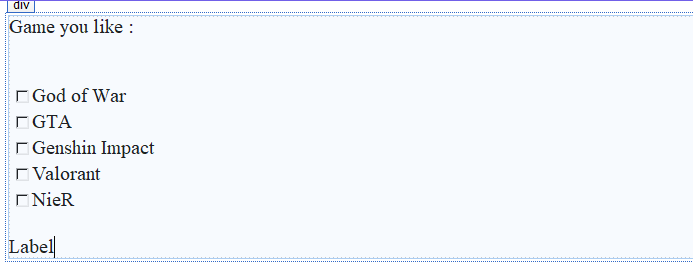
<asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>

</div>

</form>

</body>

</html> Design:



C# code:

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

namespace WebApplication3

{

public partial class WebForm4 : System.Web.UI.Page

{

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

{}

protected void CheckBoxList1\_SelectedIndexChanged(object sender, EventArgs e)

{

Label1.Text = "The games you like are : <br/>"; foreach(ListItem list in CheckBoxList1.Items)

{

if(list.Selected == true)

{

Label1.Text += list.Text.ToString() + "<br/>";

}

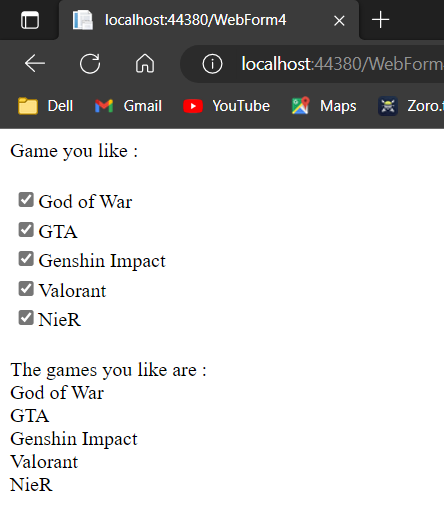
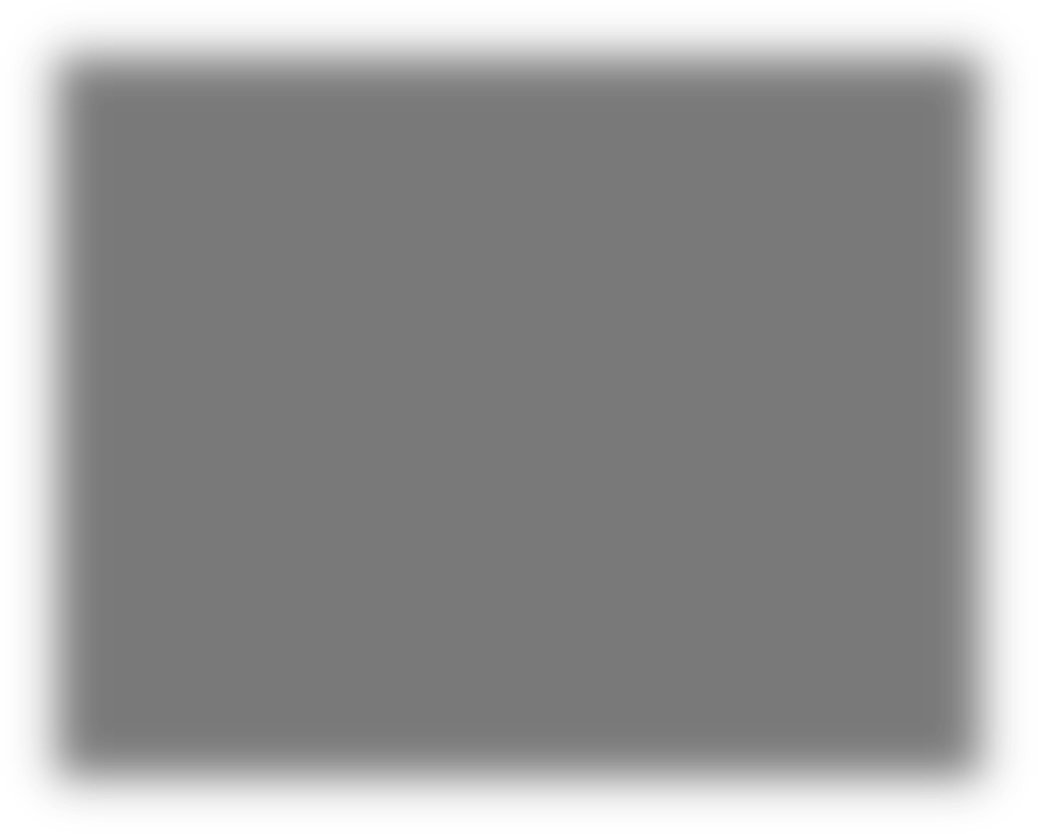
}

}

}

}

Output:



## Q17. Create a web page that demonstrates a RadioButtonList control.

Source code:

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm5.aspx.cs" Inherits="WebApplication3.WebForm5" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

<form id="form1" runat="server"> Game you like :<br />

<br />

<asp:RadioButtonList ID="RadioButtonList1" runat="server" AutoPostBack="True" OnSelectedIndexChanged="RadioButtonList1\_SelectedIndexChanged">

<asp:ListItem>God of War</asp:ListItem>

<asp:ListItem>GTA</asp:ListItem>

<asp:ListItem>Genshin Impact</asp:ListItem>

<asp:ListItem>Valorant</asp:ListItem>

<asp:ListItem>NieR</asp:ListItem>

</asp:RadioButtonList>

<br />

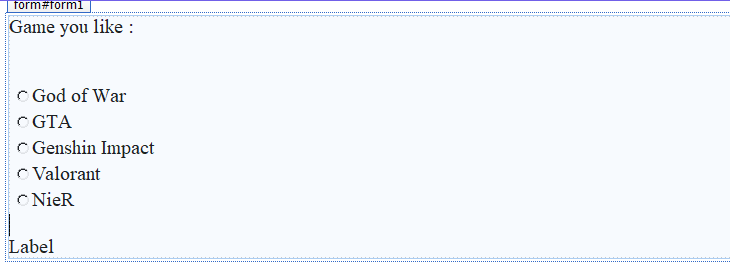
<asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>

</form>

</body>

</html>

# Design:



C# code:

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

namespace WebApplication3

{

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

{

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

{}

protected void RadioButtonList1\_SelectedIndexChanged(object sender, EventArgs e)

{

Label1.Text = "The game you like are : <br/>"; foreach (ListItem list in RadioButtonList1.Items)

{

if (list.Selected == true)

{

Label1.Text += list.Text.ToString() + "<br/>";

}

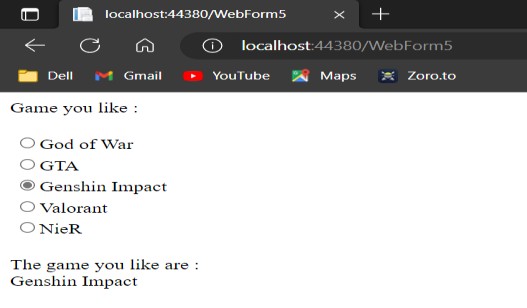
}

}

}

}

# Output:



## Q18. Create a web page that displays a Column Chart using the Chart control for Gold Medalists in respective cities from the data retrieved from a database table

Ans.

WebForm1.aspx

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

<%@ Register assembly="System.Web.DataVisualization, Version=4.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" namespace="System.Web.UI.DataVisualization.Charting" tagprefix="asp" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:Chart ID="Chart1" runat="server" Height="250px" Width="721px">

<series>

<asp:Series Name="Temperature" ChartType="Line" XValueMember="0" YValueMembers="1" MarkerStep="1" XValueType="Int32" YValueType="Int32" Color="#910048"

>

</asp:Series>

</series>

<chartareas>

<asp:ChartArea Name="ChartArea1" BorderColor="Lime" BorderWidth="5">

</asp:ChartArea>

</chartareas>

<Legends>

<asp:Legend Name="Legend1" Alignment="Center" BackColor="YellowGreen" BorderColor="DarkGreen" IsTextAutoFit="true"

Title="Temperature Prediction" TitleAlignment="Center">

</asp:Legend>

</Legends>

<Titles>

<asp:Title

Text="Chart for Temperature Prediction in the Month of July in Delhi" Font="Arial Black" ForeColor="#f14d0e" BorderColor="DarkRed" BackColor="Lime">

</asp:Title>

</Titles>

</asp:Chart>

</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; using System.Data;

using System.Data.SqlClient;

namespace ChartControl

{

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

{

SqlConnection c1; SqlDataAdapter da; DataSet ds;

public void Connect()

{

c1 = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\USER\Documents\d1.mdf;Integrated Security=True;Connect Timeout=30");

c1.Open();

}

public void BindChart()

{

Connect();

String cmd\_str = "select \* from Temperatures"; da = new SqlDataAdapter(cmd\_str, c1);

ds = new DataSet(); da.Fill(ds, "Temp"); Chart1.DataSource = ds; Chart1.DataBind();

}

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

{

BindChart(); Chart1.ChartAreas[0].AxisX.Interval = 2;

Chart1.ChartAreas[0].AxisY.Minimum = 20;

Chart1.Titles[0].Font = new System.Drawing.Font("Comic Sans Ms", 20, System.Drawing.FontStyle.Bold);

Chart1.ChartAreas[0].AxisX.Title = "Date of Month"; Chart1.ChartAreas[0].AxisX.TitleFont = new System.Drawing.Font("Arial", 12,

System.Drawing.FontStyle.Bold);

Chart1.ChartAreas[0].AxisX.TitleForeColor = System.Drawing.Color.DarkRed;

Chart1.ChartAreas[0].AxisY.Title = "Temperature"; Chart1.ChartAreas[0].AxisY.TitleFont = new System.Drawing.Font("Arial", 12,

System.Drawing.FontStyle.Bold);

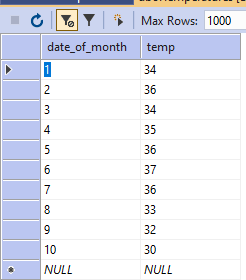
Chart1.ChartAreas[0].AxisY.TitleForeColor = System.Drawing.Color.DarkRed;

}

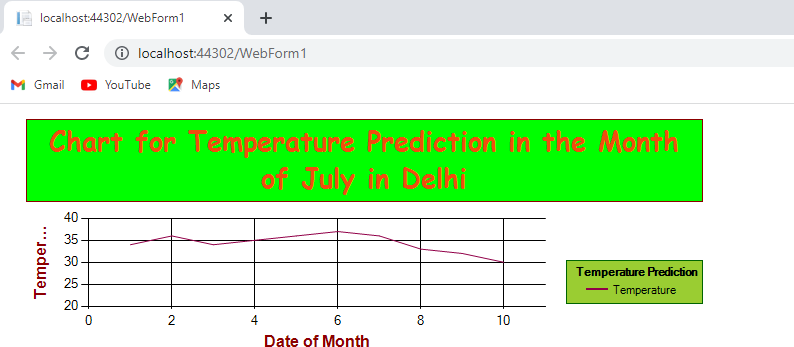
}

}

Database Table (Temperatures)



Output:



Q19.Create a web page that displays a Column Chart using the Chart control for Gold Medalists in respective cities from the data retrieved from a database table

Ans.

WebForm2.aspx

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

<!DOCTYPE html>

<html xmlns="[http://www.w3.org/1999/xhtml"](http://www.w3.org/1999/xhtml)>

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:Chart runat="server" ID="Chart1" Width="800px" BackColor="Yellow" BackGradientStyle="DiagonalLeft">

<series>

<asp:Series Name="Temperature" ChartType="Column" XValueMember="0" YValueMembers="1"

MarkerStep="1" XValueType="Int32" YValueType="Int32" Color="#910048"

>

</asp:Series>

</series>

<chartareas>

<asp:ChartArea Name="ChartArea1" BorderColor="Lime" BorderWidth="5">

</asp:ChartArea>

</chartareas>

<Legends>

<asp:Legend Name="Legend1" Alignment="Center" BackColor="YellowGreen" BorderColor="DarkGreen" IsTextAutoFit="true"

Title="Temperature Prediction" TitleAlignment="Center">

</asp:Legend>

</Legends>

<Titles>

<asp:Title

Text="Chart for Temperature Prediction in the Month of July in Delhi" Font="Arial Black" ForeColor="#f14d0e" BorderColor="DarkRed" BackColor="Lime">

</asp:Title>

</Titles>

</asp:Chart>

</div>

</form>

</body>

</html>

WebForm2.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;

using System.Data.SqlClient; namespace ChartControl

{

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

{

SqlConnection c1; SqlDataAdapter da; DataSet ds;

public void Connect()

{

c1 = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Administrator.KAVITA- PC\Documents\d1.mdf;Integrated Security=True;Connect Timeout=30");

c1.Open();

}

public void BindChart()

{

Connect();

String cmd\_str = "select \* from Temperatures"; da = new SqlDataAdapter(cmd\_str, c1);

ds = new DataSet(); da.Fill(ds, "TP"); Chart1.DataSource = ds; Chart1.DataBind();

}

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

{

BindChart(); Chart1.ChartAreas[0].AxisX.Interval = 2;

Chart1.ChartAreas[0].AxisY.Minimum = 20;

Chart1.Titles[0].Font = new System.Drawing.Font("Comic Sans Ms", 20, System.Drawing.FontStyle.Bold);

Chart1.ChartAreas[0].AxisX.Title = "Date of Month"; Chart1.ChartAreas[0].AxisX.TitleFont = new System.Drawing.Font("Arial", 12,

System.Drawing.FontStyle.Bold);

Chart1.ChartAreas[0].AxisX.TitleForeColor = System.Drawing.Color.DarkRed;

Chart1.ChartAreas[0].AxisY.Title = "Temperature"; Chart1.ChartAreas[0].AxisY.TitleFont = new System.Drawing.Font("Arial", 12,

System.Drawing.FontStyle.Bold);

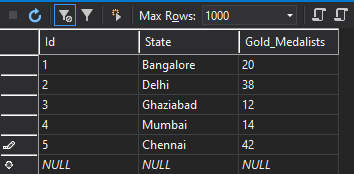
Chart1.ChartAreas[0].AxisY.TitleForeColor = System.Drawing.Color.DarkRed;

}

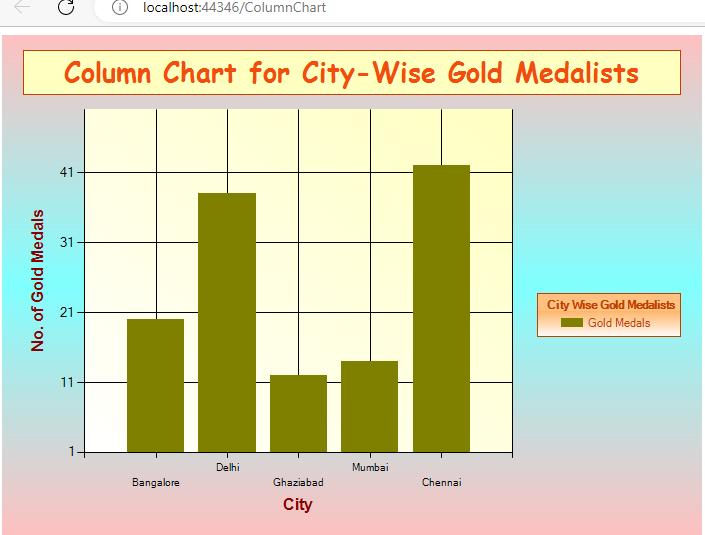
}

}

Database table:



Output



## Q20. Create a web page that displays a Pie Chart using the Chart control for product sales. Ans.

**WebForm3.aspx**

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

<!DOCTYPE html>

<html xmlns="[http://www.w3.org/1999/xhtml"](http://www.w3.org/1999/xhtml)>

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:Chart runat="server" ID="Chart1" Width="800px" BackColor="Yellow" BackGradientStyle="DiagonalLeft">

<series>

<asp:Series Name="Sales" ChartType="Pie" XValueMember="1" YValueMembers="2"

MarkerStep="1" XValueType="String" YValueType="Int32" Color="#910048"

>

</asp:Series>

</series>

<chartareas>

<asp:ChartArea Name="ChartArea1" BorderColor="Lime" BorderWidth="5">

</asp:ChartArea>

</chartareas>

<Legends>

<asp:Legend Name="Legend1" Alignment="Center" BackColor="YellowGreen" BorderColor="DarkGreen" IsTextAutoFit="true"

Title="Sales of Products" TitleAlignment="Center">

</asp:Legend>

</Legends>

<Titles>

<asp:Title

Text="Pie Chart for Sales of Laptop" BackColor="Lime">

</asp:Title>

</Titles>

</asp:Chart>

</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; using System.Data;

using System.Data.SqlClient; namespace ChartControl

{

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

{

SqlConnection c1; SqlDataAdapter da; DataSet ds;

public void Connect()

{

c1 = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Administrator.KAVITA- PC\Documents\d1.mdf;Integrated Security=True;Connect Timeout=30");

c1.Open();

}

public void BindChart()

{

Connect();

String cmd\_str = "select \* from ProductSales"; da = new SqlDataAdapter(cmd\_str, c1);

ds = new DataSet(); da.Fill(ds, "TP");

Chart1.DataSource = ds; Chart1.DataBind();

}

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

{

BindChart();

//Chart1.ChartAreas[0].AxisX.Interval = 2;

// Chart1.ChartAreas[0].AxisY.Minimum = 20;

Chart1.Titles[0].Font = new System.Drawing.Font("Comic Sans Ms", 20, System.Drawing.FontStyle.Bold);

Chart1.ChartAreas[0].AxisX.Title = "Date of Month"; Chart1.ChartAreas[0].AxisX.TitleFont = new System.Drawing.Font("Arial", 12,

System.Drawing.FontStyle.Bold);

Chart1.ChartAreas[0].AxisX.TitleForeColor = System.Drawing.Color.DarkRed;

Chart1.ChartAreas[0].AxisY.Title = "Laptop Brand"; Chart1.ChartAreas[0].AxisY.TitleFont = new System.Drawing.Font("Arial", 12,

System.Drawing.FontStyle.Bold);

Chart1.ChartAreas[0].AxisY.TitleForeColor = System.Drawing.Color.DarkRed;

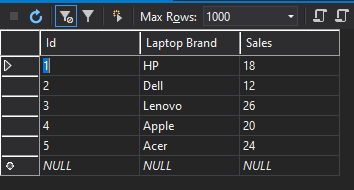
//Chart1.Series[0].Label = "#PERCENT{P0}"; Chart1.Series[0].Label = "#PERCENT{P0}\n#VALX";

}

}

}

Database table



Output:

