Practical File

ASP.NET LAB

(BCA-235)

Submitted in partial fulfillment of the requirements

for the award of the degree of

Bachelor of Computer Applications

Guru Gobind Singh Indraprastha University, Delhi

Submitted to:

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Institute of Information Technology & Management,

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Batch (2021 - 2024)

ASP.NET

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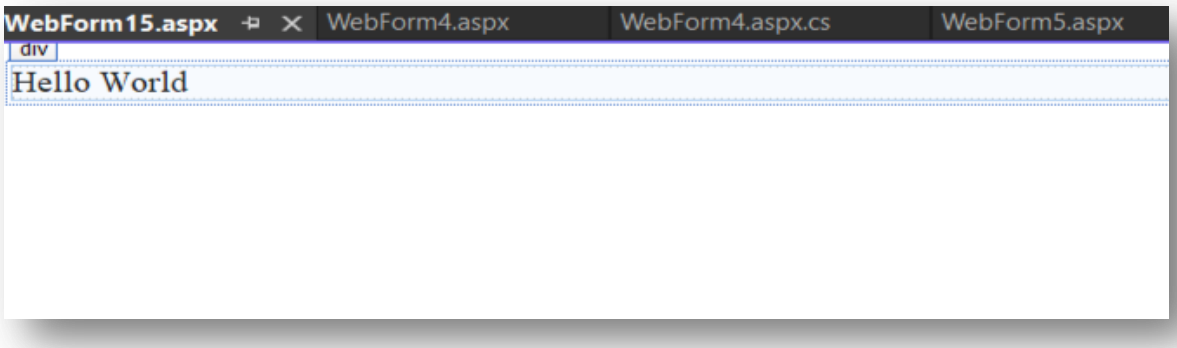
	a database table when user clicks a button on the first web page.			
14	Create a Web page that displays list of courses using bulleted list. When user clicks on any item on the list, total number of courses should be displayed in a label.	46	23-11-2022	
15	Create a web page that displays a drop down list of color names. When user selects a color name, the background of the web page should be changed to that color.	50	30-11-2022	
16	Create a web page that demonstrates a CheckBoxList control.	52	14-12-2022	
17	Create a web page that demonstrates a RadioButtonList control.	55	14-12-2022	
18	Create a web page that displays a Line Chart using the Chart control from the data retrieved from the Temperatures table that contains day wise temperature.	58	21-12-2022	
19	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.	61	21-12-2022	
20	Create a web page that displays a Pie Chart using the Chart control for product sales.	71	28-12-2022	

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

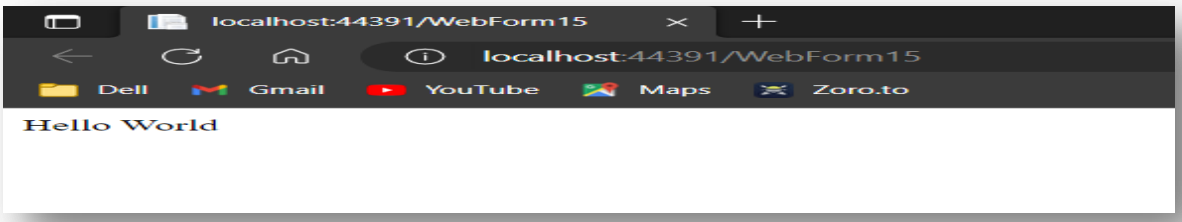
Ans.

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

<!DOCTYPE html>

<html xmlns="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:

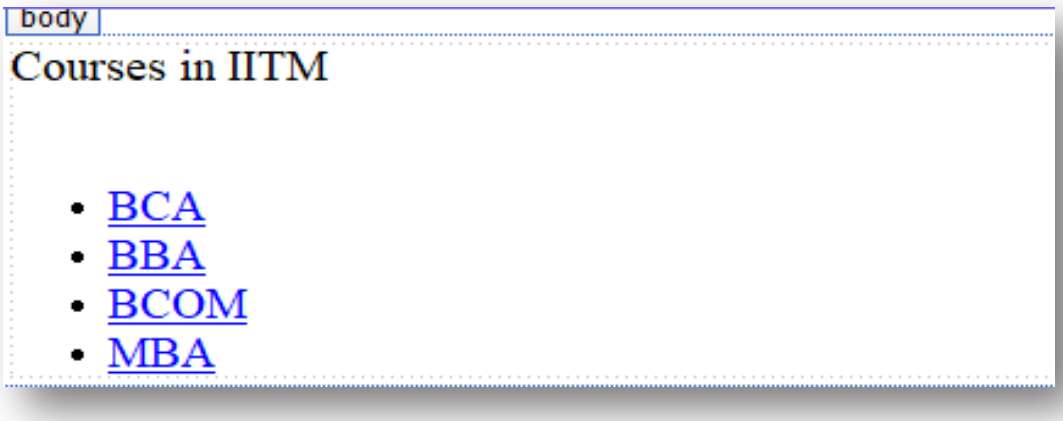


2. Create a Web page in ASP.NET to display the list of courses in IITM.

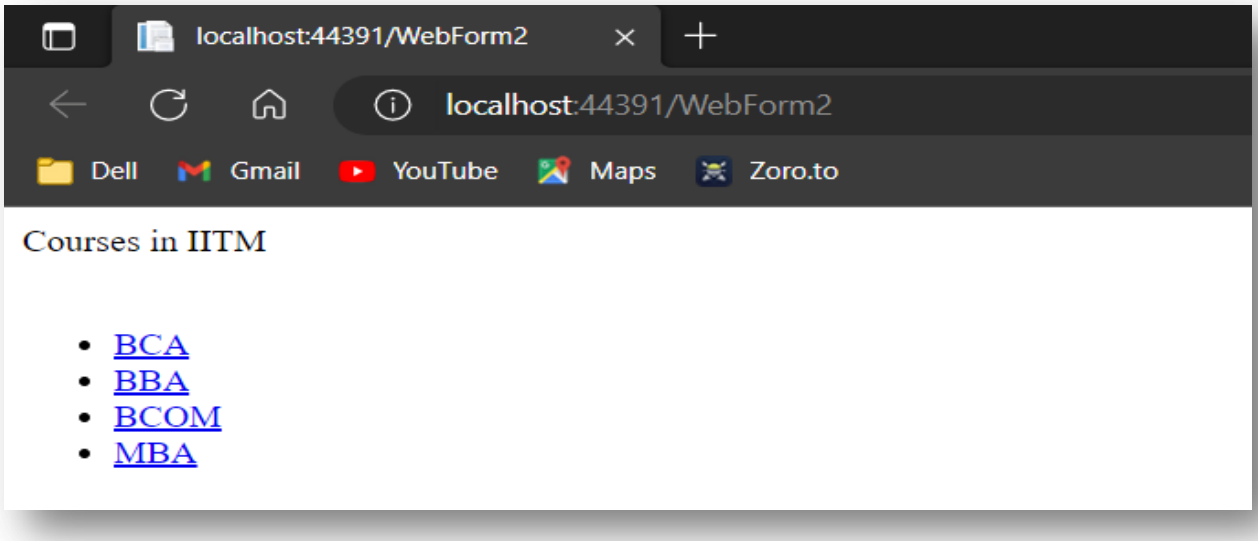
Ans.

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

<!DOCTYPE html>

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

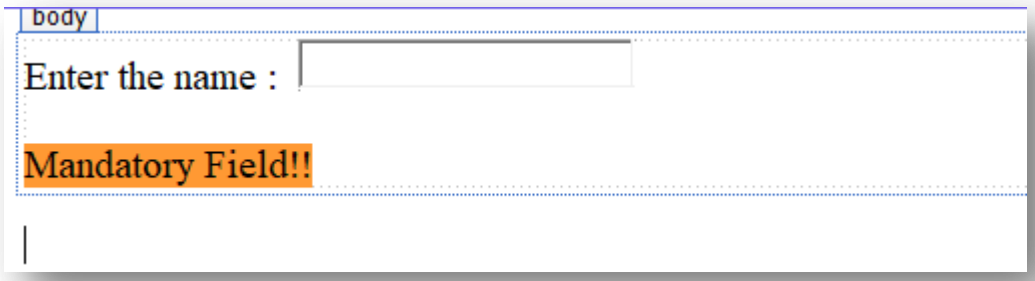

localhost:44391/WebForm2
localhost:44391/WebForm2
Dell
Gmail
YouTube
Maps
Zoro.to
Courses in IITM
BCA
BBA
BCOM
MBA

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

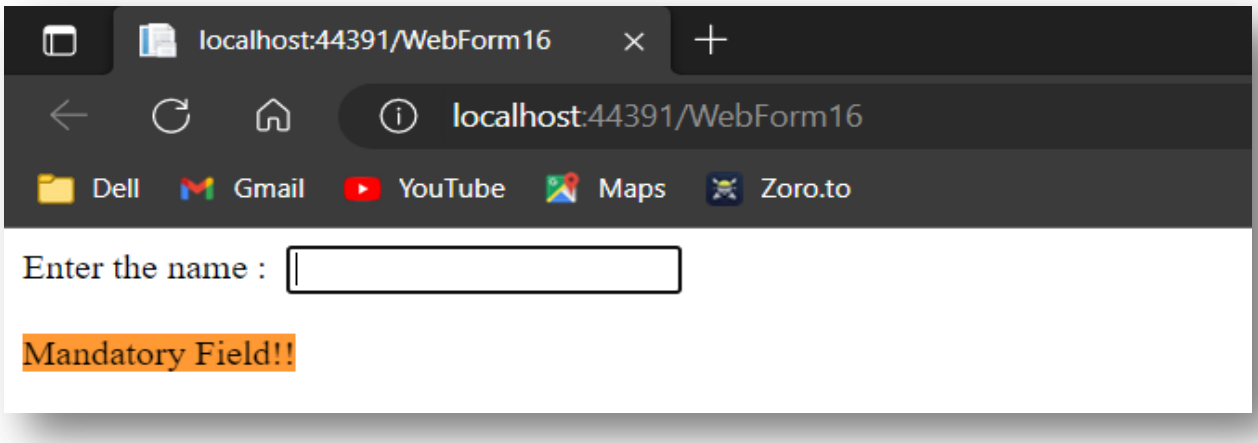
Ans:

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

<!DOCTYPE html>

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

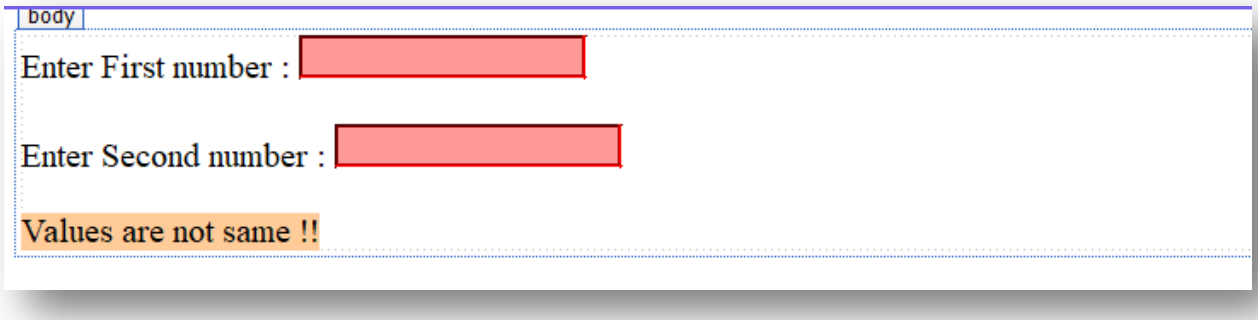

localhost:44391/WebForm16
localhost:44391/WebForm16
Dell
Gmail
YouTube
Maps
Zoro.to
Enter the name :
Mandatory Field!!

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

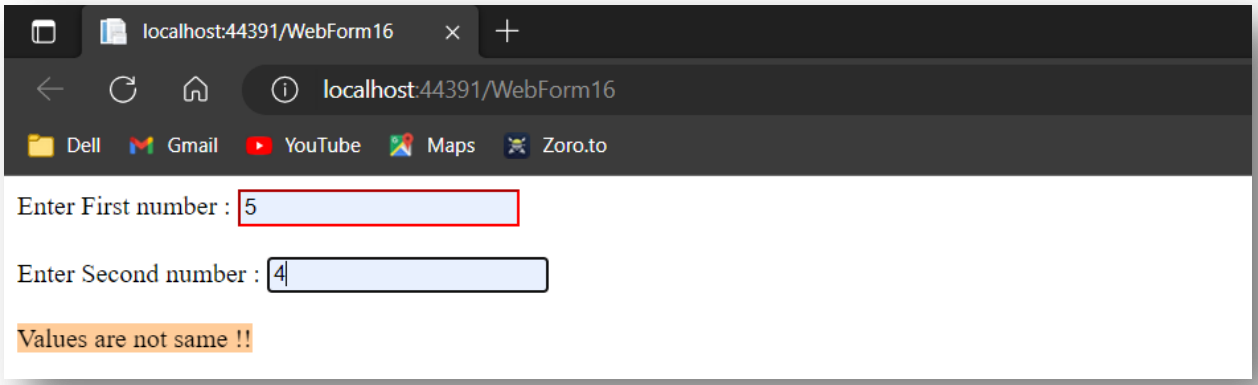
Ans.

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<div>
        Enter First number : <asp:TextBox ID="TextBox2" runat="server"
BackColor="#FF9999" BorderColor="Red"></asp:TextBox>
<br />
<br />
        Enter Second number : <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:

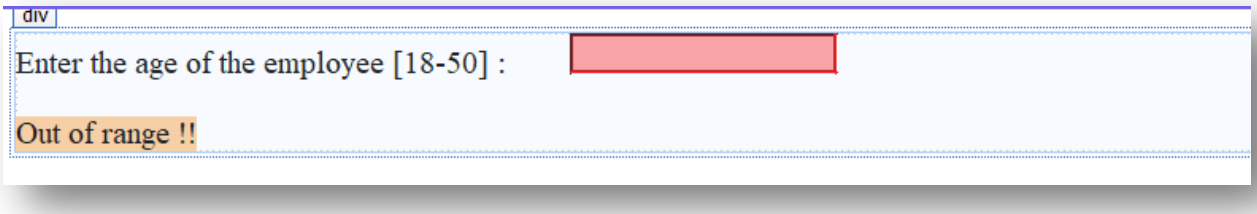

localhost:44391/WebForm16
localhost:44391/WebForm16
Dell
Gmail
YouTube
Maps
Zoro.to
Enter First number : 5
Enter Second number : 4
Values are not same !!

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

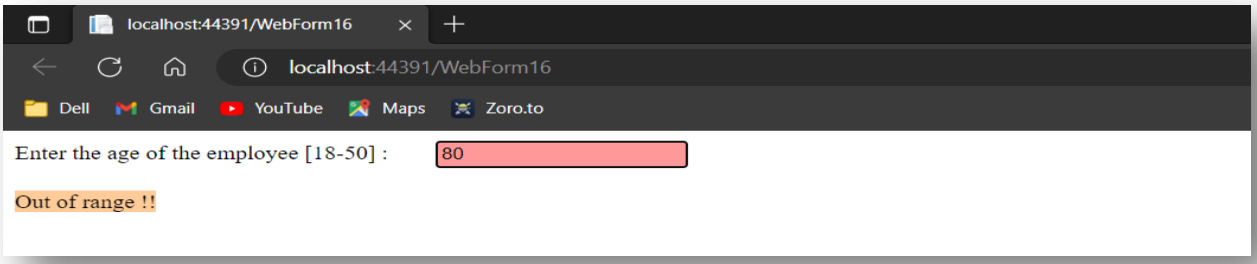
Ans.

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

<!DOCTYPE html>

<html xmlns="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]
:        <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

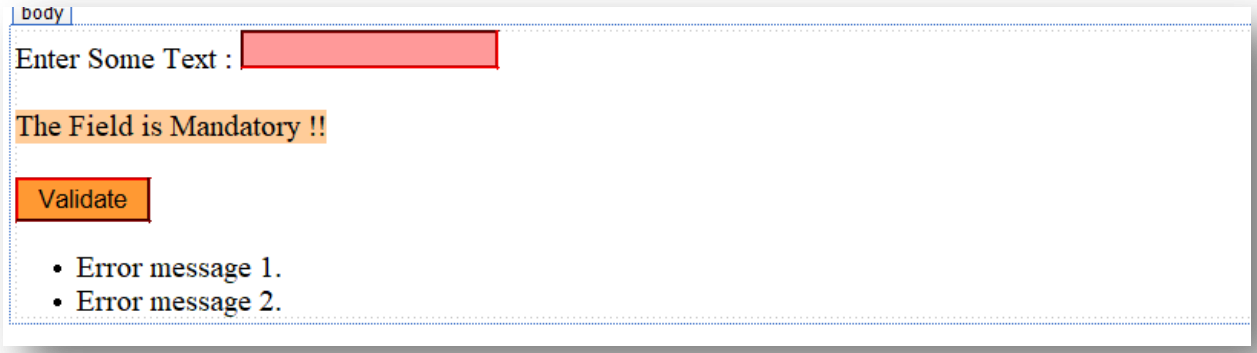


Q8.Create a web page in ASP.NET that demonstrates the use of ValidationSummary.

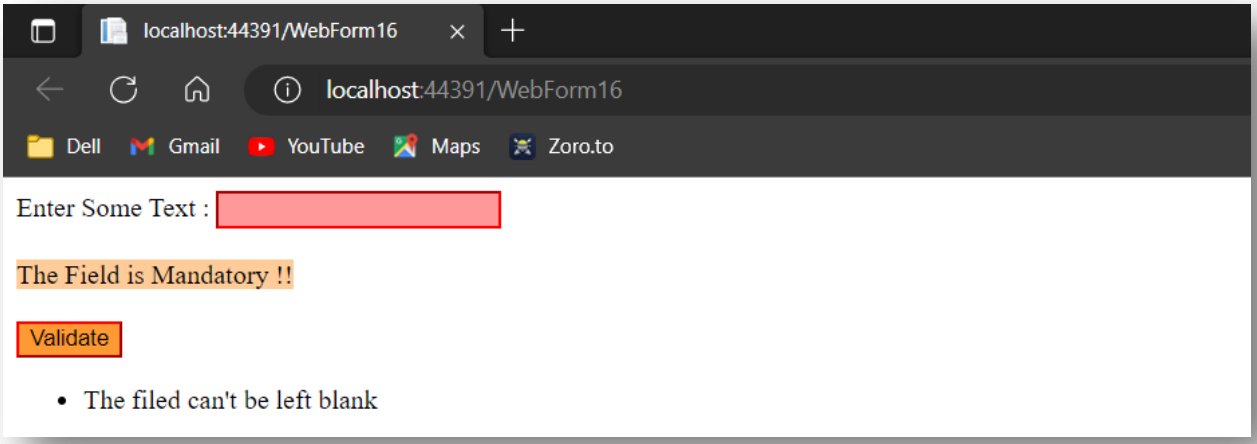
Ans.

```
<%@ 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:


body
Enter Some Text :
The Field is Mandatory !!
Validate
Error message 1.
Error message 2.

Output:

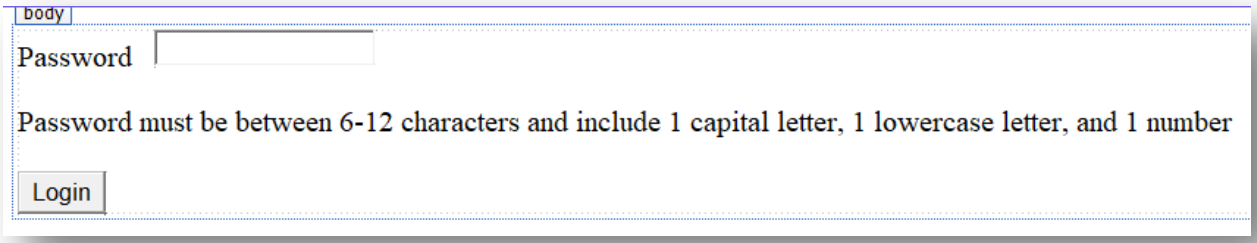

localhost:44391/WebForm16
localhost:44391/WebForm16
Dell
Gmail
YouTube
Maps
Zoro.to
Enter Some Text :
The Field is Mandatory !!
Validate
The filed can't be left blank

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>
  
<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:

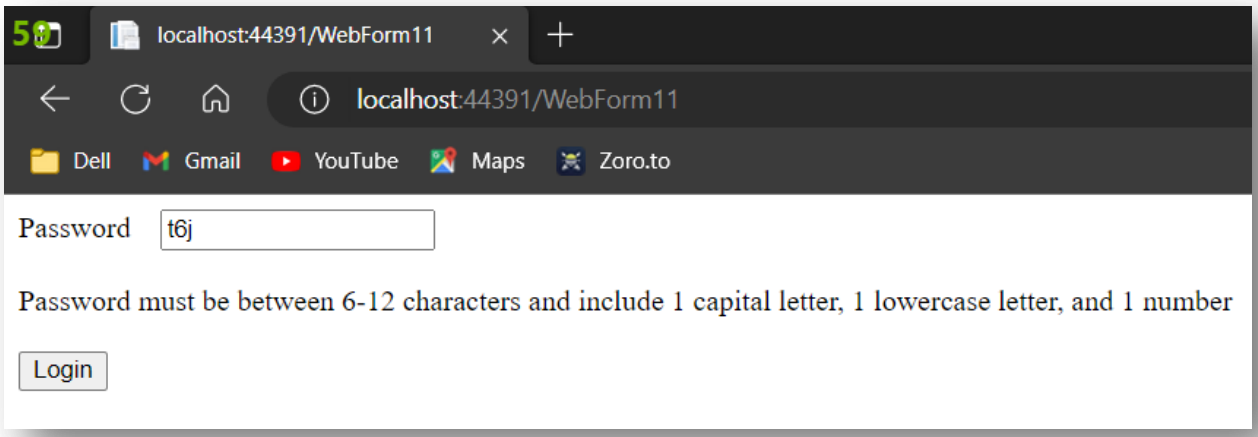


C# code:

```
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:

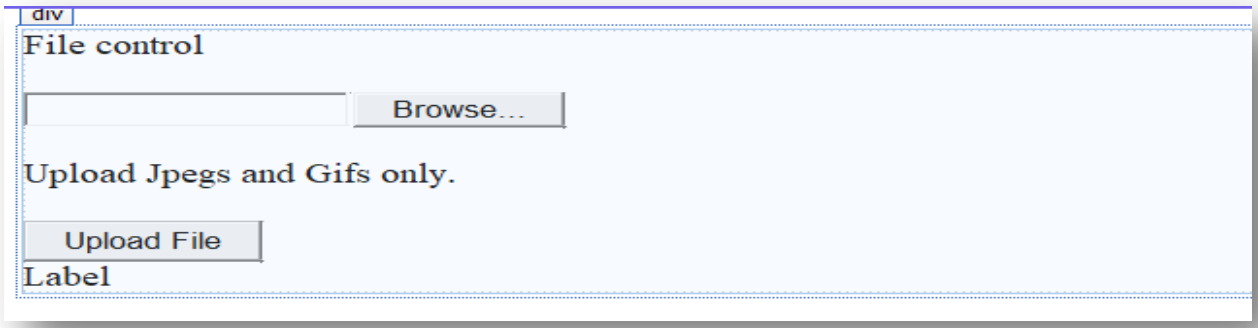


Q10.Write a program to use FileUpload control.

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>
 
<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>
```

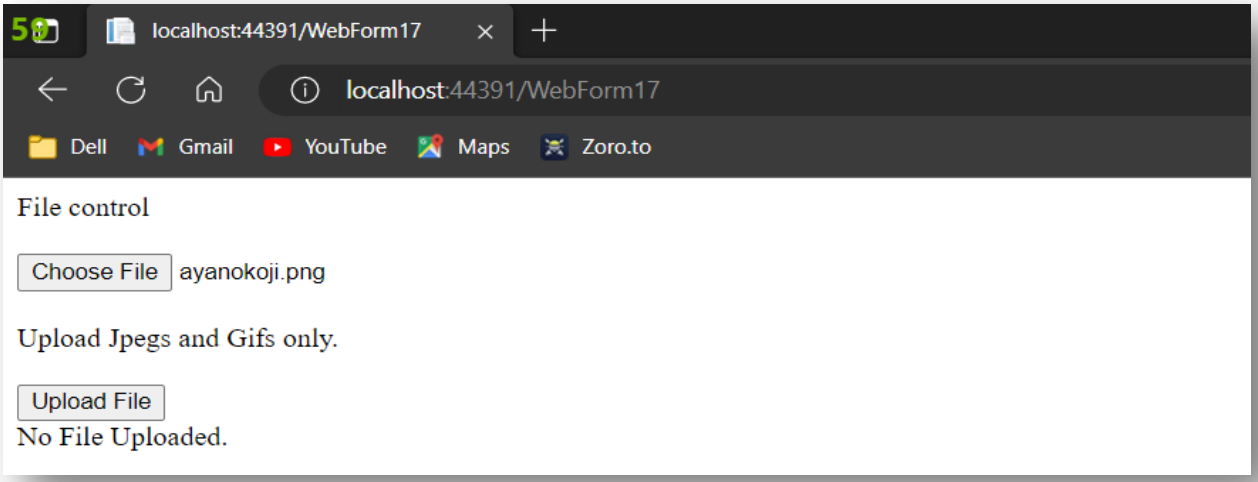
Design:



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:


localhost:44391/WebForm17
localhost:44391/WebForm17
Dell
Gmail
YouTube
Maps
Zoro.to
File control
Choose File
ayanokoji.png
Upload Jpegs and Gifs only.
Upload File
No File Uploaded.

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>
```

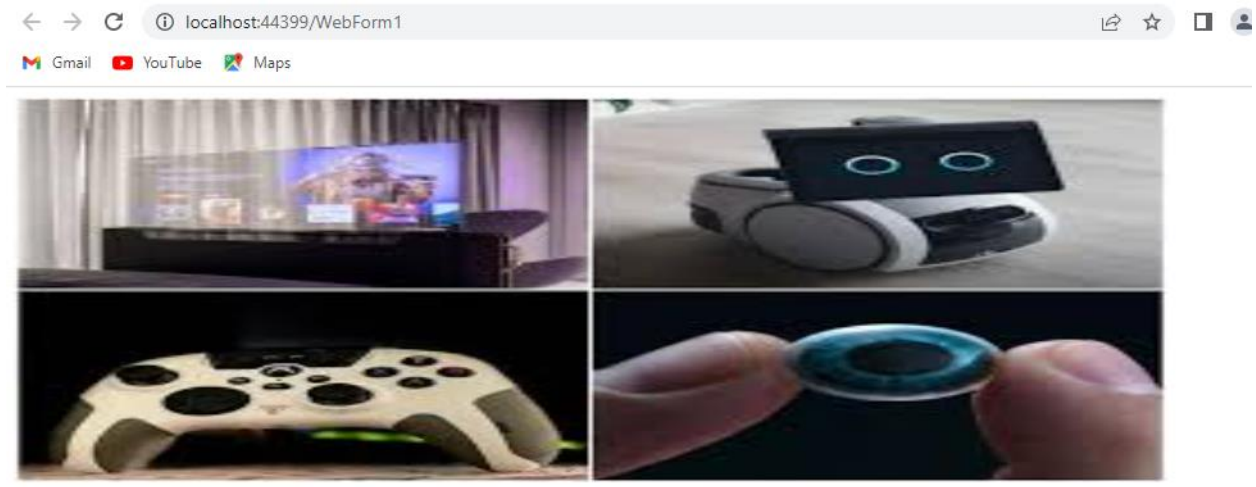
Ads.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
        <Ad>
                <ImageUrl>a4.jpg</ImageUrl>


        <NavigateUrl>https://www.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.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.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.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.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

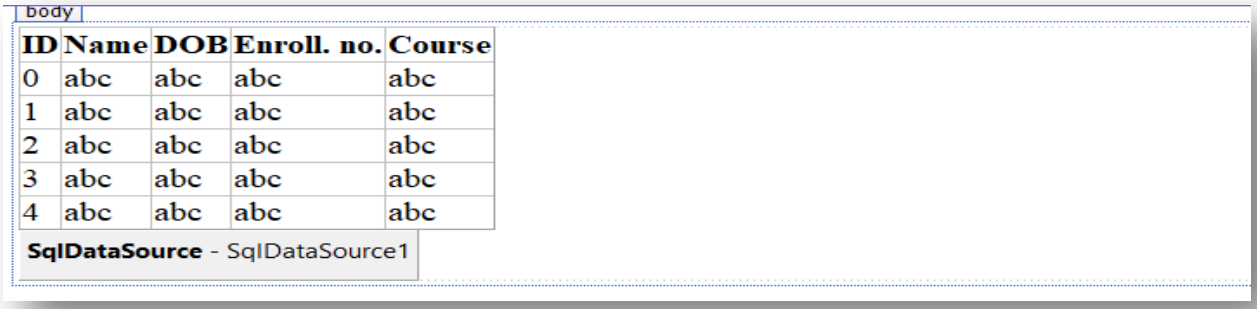


Q12. Create a web form to display students' data in GridView.

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:

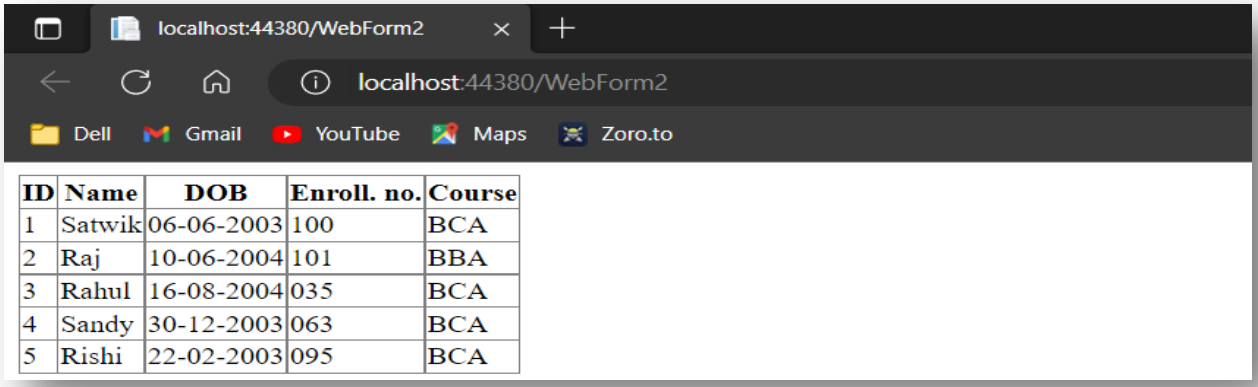
```
using System;
usingSystem.Collections.Generic;
usingSystem.Linq;
usingSystem.Web;
usingSystem.Web.UI;
usingSystem.Web.UI.WebControls;
usingSystem.Data;
usingSystem.Data.SqlClient;

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:

Max Rows: 1000

	ID	Name	DOB	Enroll. no.	Course
	1	Satwik	06-06-2003	100	BCA
	2	Raj	10-06-2004	101	BBA
	3	Rahul	16-08-2004	035	BCA
	4	Sandy	30-12-2003	063	BCA
	5	Rishi	22-02-2003	095	BCA
		NULL	*NULL*	*NULL*	*NULL*
	NULL	NULL	NULL	NULL	NULL

Output:



ID	Name	DOB	Enroll. no.	Course
1	Satwik	06-06-2003	100	BCA
2	Raj	10-06-2004	101	BBA
3	Rahul	16-08-2004	035	BCA
4	Sandy	30-12-2003	063	BCA
5	Rishi	22-02-2003	095	BCA

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 />

            &n
bsp;            
;           

            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Show"
/>

       

            <asp:Button ID="Button2" runat="server" OnClick="Button2_Click" Text="Add"
/>
```

```
       

        <asp:Button ID="Button3" runat="server" OnClick="Button3_Click"
Text="Update" />

       

        <asp:Button ID="Button4" runat="server" OnClick="Button4_Click" Text="Delete"
/>


            

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

        <br />

        <br />

      </div>

   </form>

</body>

</html>
```

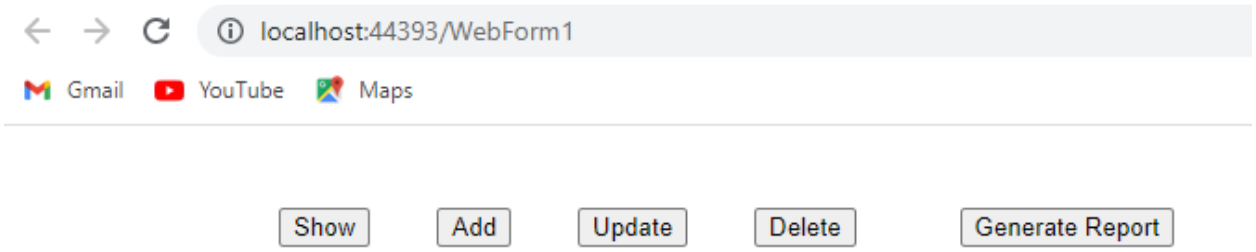
WebForm1.aspx.cs

```
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">
```

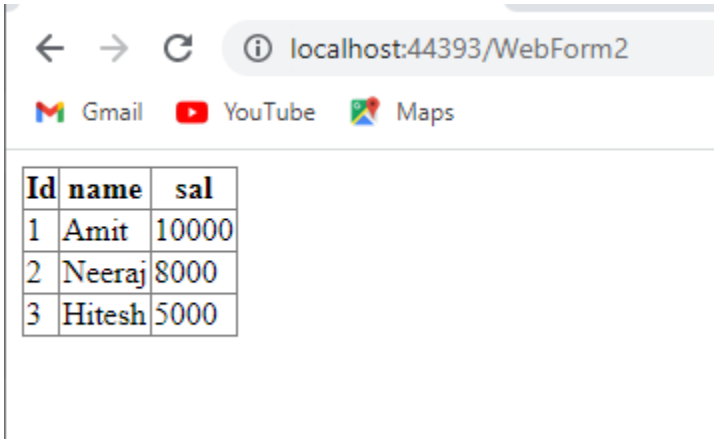
```
            </asp:GridView>
        </div>
    </form>
</body>
</html>
```

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



Id	name	sal
1	Amit	10000
2	Neeraj	8000
3	Hitesh	5000

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>

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

            &n
bsp;            
;            &n
bsp;      Employee
ID            
            &n
bsp;
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <br />

            &n
bsp;            
;            &n
bsp;      Employee
```

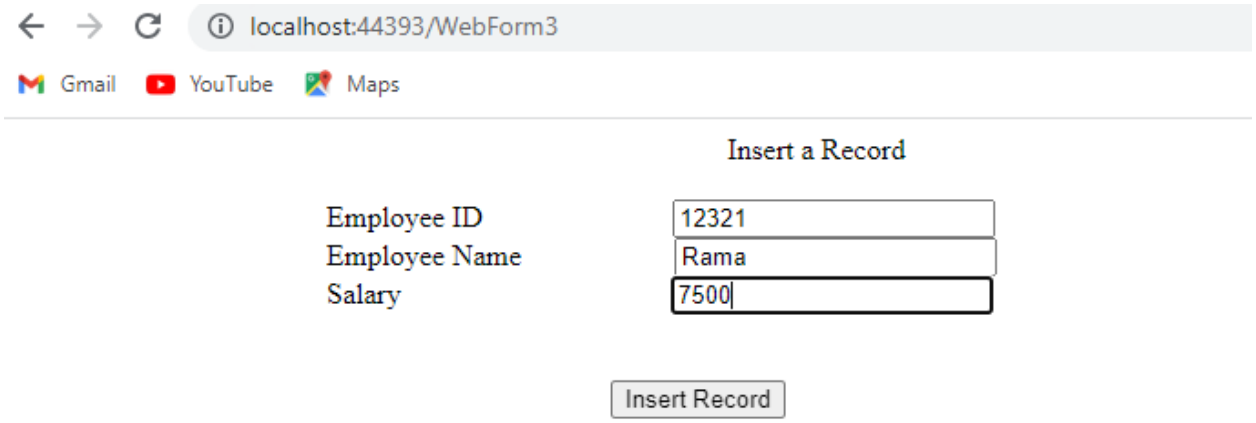
```
Name           &nb
sp;        

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

            <br />

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

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

            <br />

            <br />

            <br />

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

            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Insert
Record" />

        </div>

    </form>

</body>

</html>
```

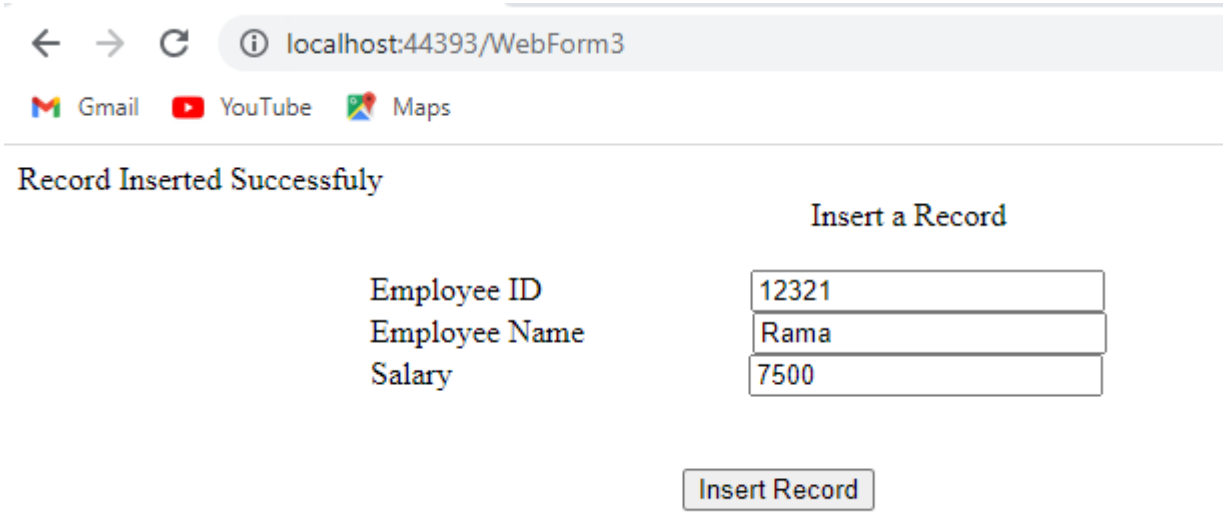
WebForm3.aspx.cs

```
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 />
          
            <br />
          
            <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:          &n
bsp;    
            <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
            <br />
            <br />
         
            <asp:Button ID="Button2" runat="server" OnClick="Button2_Click"
Text="Update" />
```

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

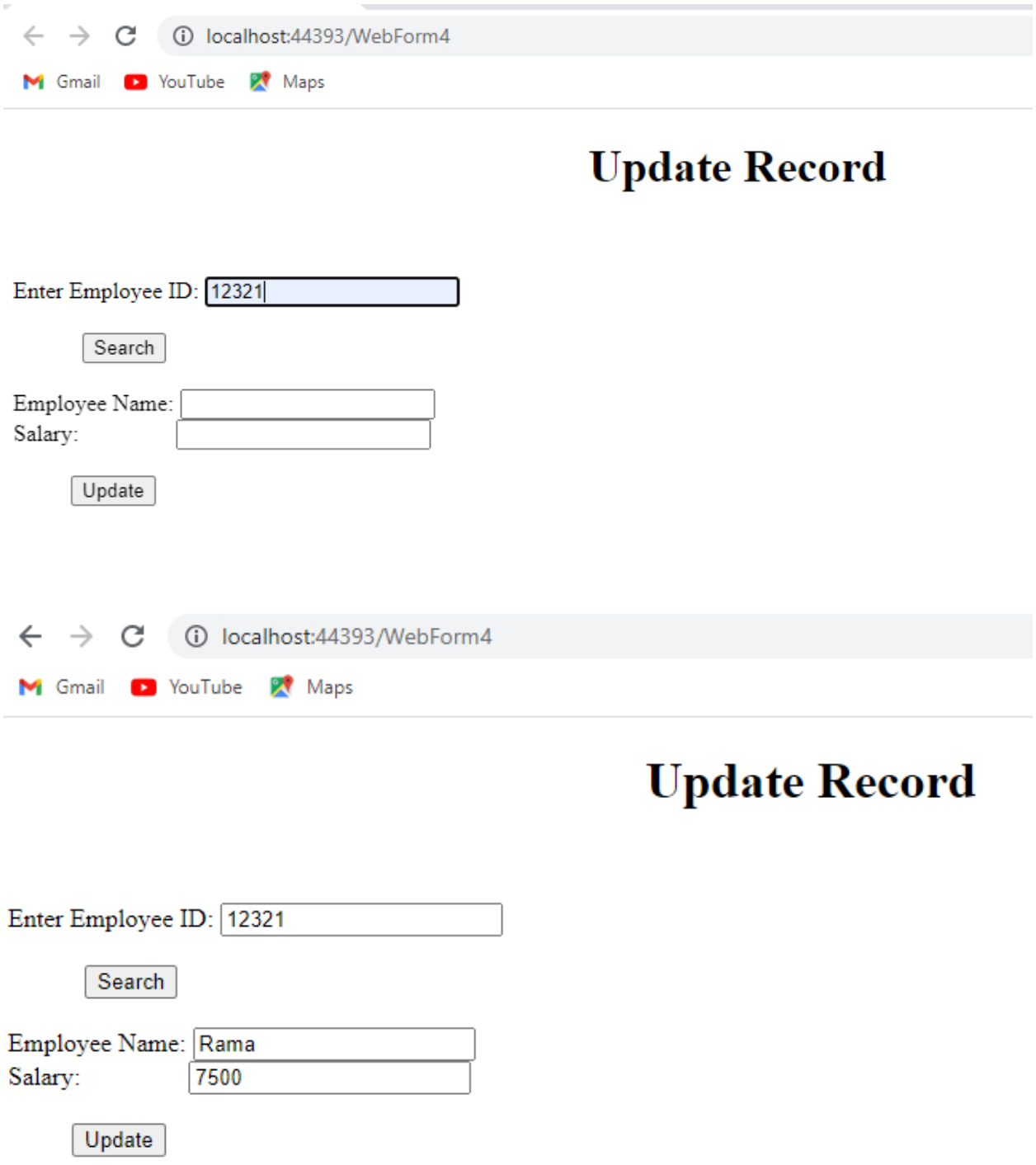
WebForm4.aspx.cs

```
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>

            &n
bsp;            
;            &n
bsp;            
;            &n
bsp;            
;  Enter the Employee Id to Delete
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <br />
            &n
bsp;            
;            &n
bsp;            
;            &n
bsp;            
;            &n
bsp;            
;           
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Click
to Delete" />
            <br />
```

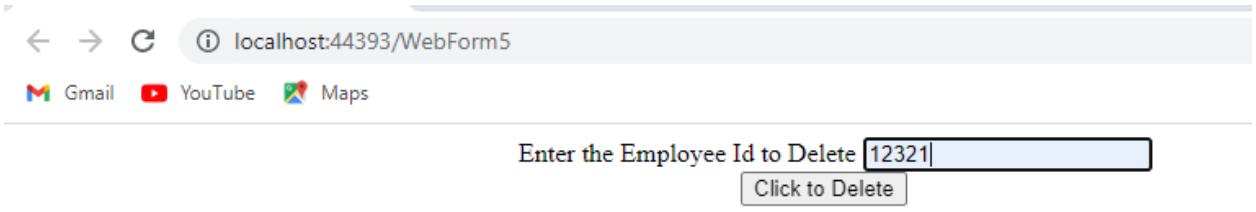
```
            <br />
            <br />
        </div>
    </form>
</body>
</html>
```

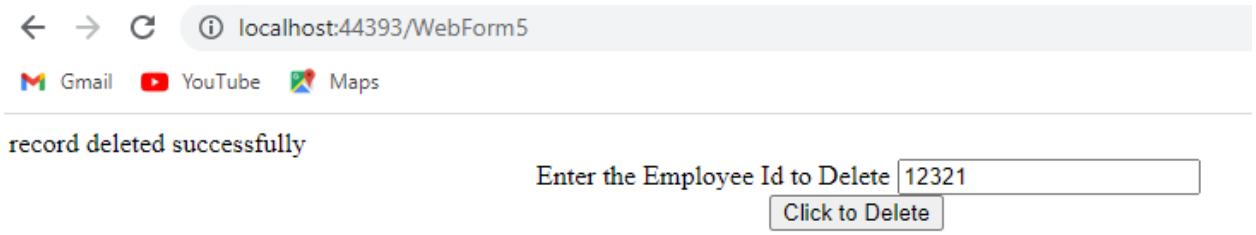
WebForm5.aspx.cs

```
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




localhost:44393/WebForm5
Gmail
YouTube
Maps
record deleted successfully
Enter the Employee Id to Delete
12321
Click to Delete

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>
```

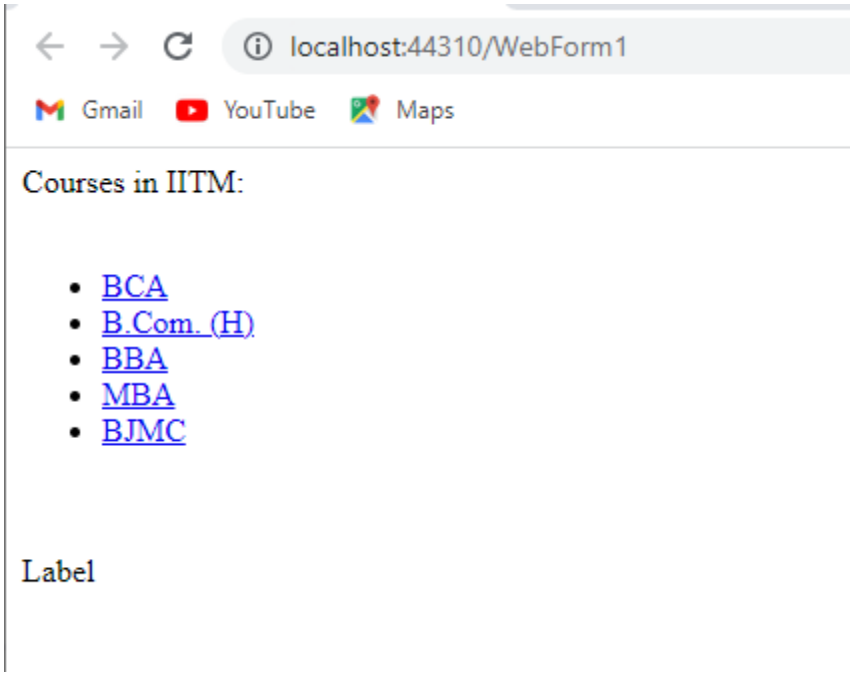
```
            <br />
            <br />
            <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
        </div>
    </form>
</body>
</html>
```

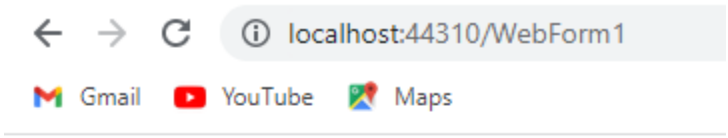
WebForm1.aspx.cs

```
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





System.Web.UI.WebControls.BulletedList
Courses in IITM:

- BCA
- B.Com. (H)
- BBA
- MBA
- BJMC

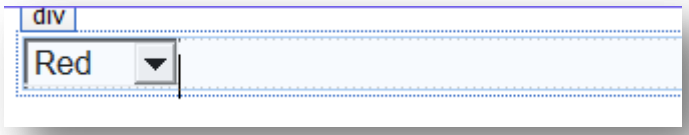
Total Number of Courses are 5

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:

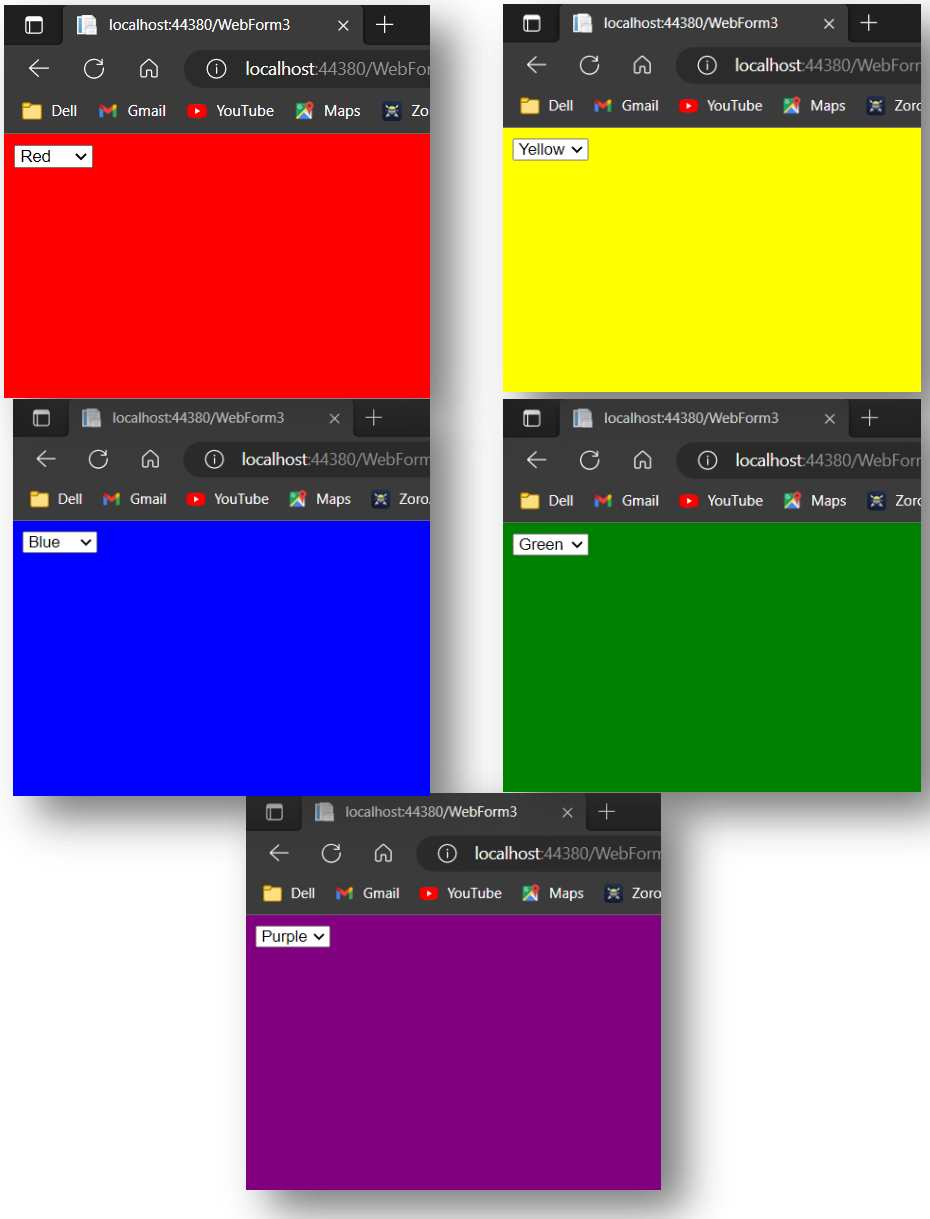


C# code:

```
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.

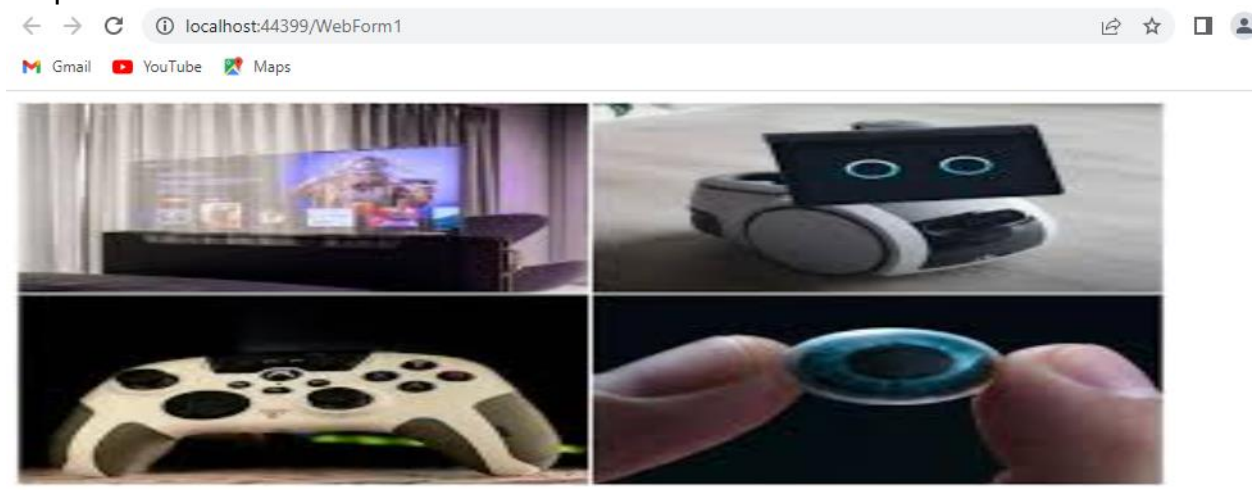
Ans.
WebForm1.aspx
WebForm1.aspx
```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="AdRotatorDemo.WebForm1" %>

<!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.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.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.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.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.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

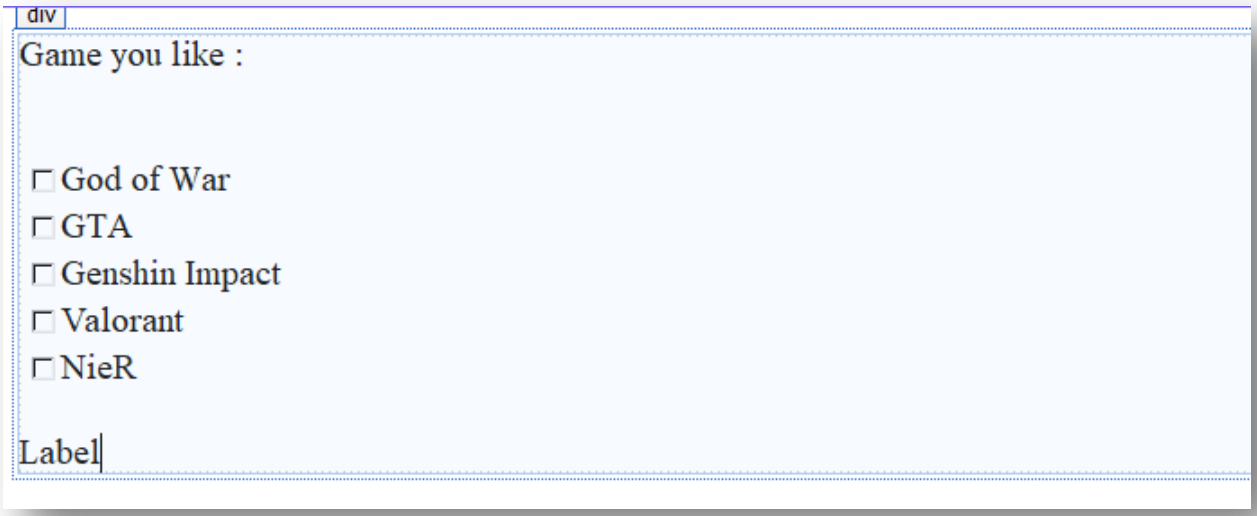


Q16. Create a web page that demonstrates a CheckBoxList control.

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>
```

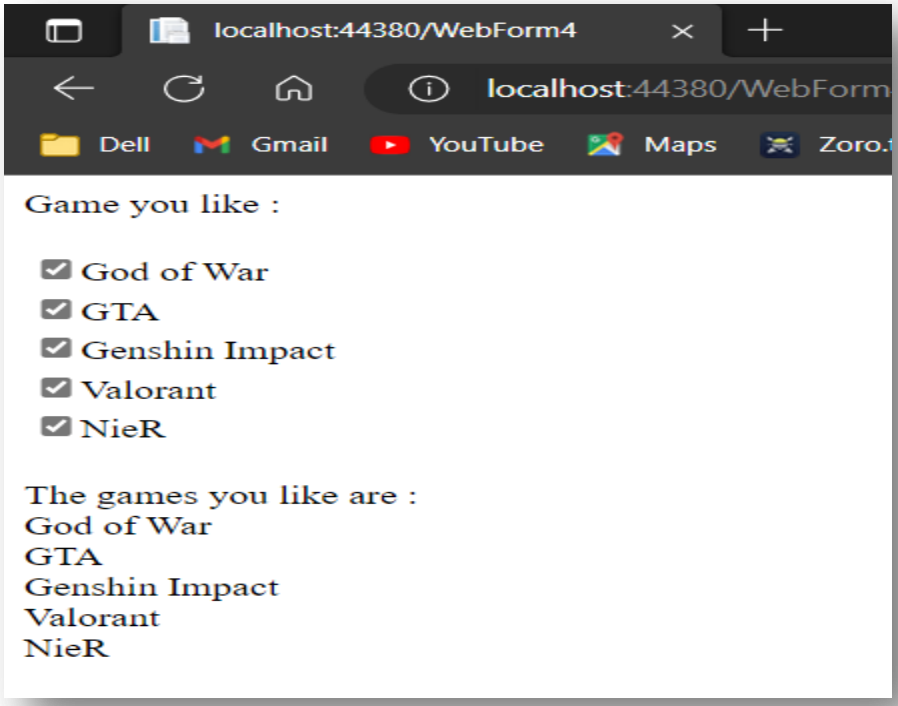
Design:



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:

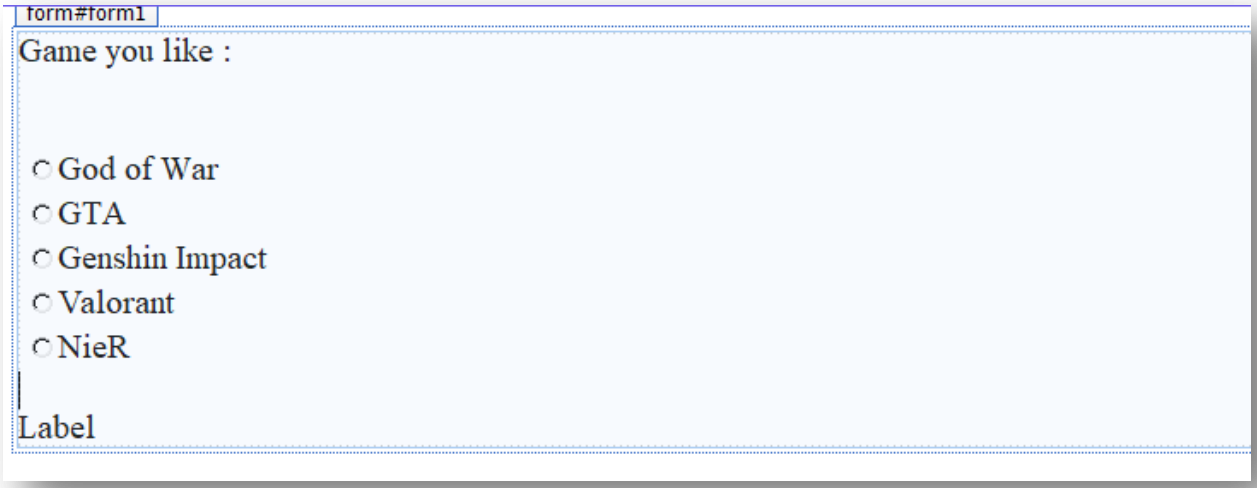

localhost:44380/WebForm4
localhost:44380/WebForm
Dell
Gmail
YouTube
Maps
Game you like :
God of War
GTA
Genshin Impact
Valorant
NieR
The games you like are :
God of War
GTA
Genshin Impact
Valorant
NieR

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:

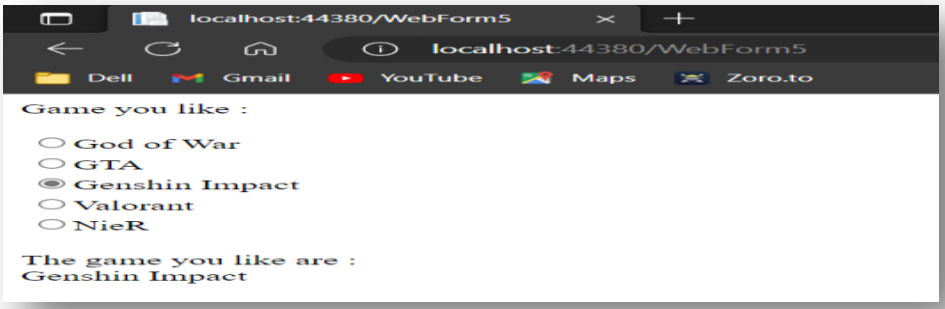


C# code:

```
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:


localhost:44380/WebForm5
localhost:44380/WebForm5
Dell
Gmail
YouTube
Maps
Zoro.to
Game you like :
God of War
GTA
Genshin Impact
Valorant
NieR
The game you like are :
Genshin Impact

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;

    }
  }
```

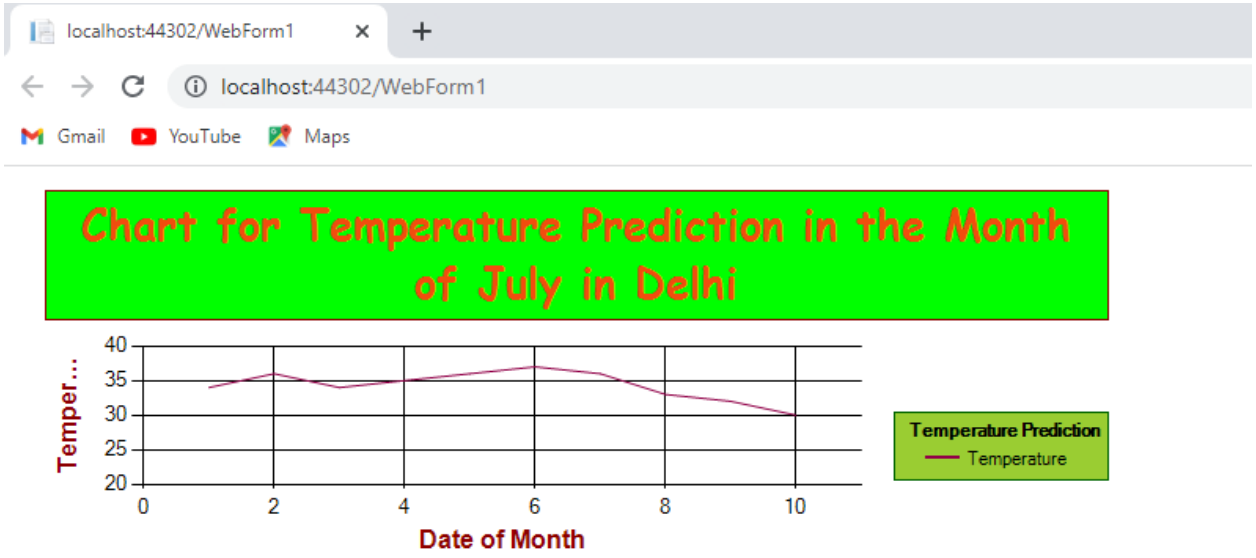
}

Database Table (Temperatures)

Max Rows: 1000

	date_of_month	temp
▶	1	34
	2	36
	3	34
	4	35
	5	36
	6	37
	7	36
	8	33
	9	32
	10	30
*	*NULL*	*NULL*

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">
<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);
```

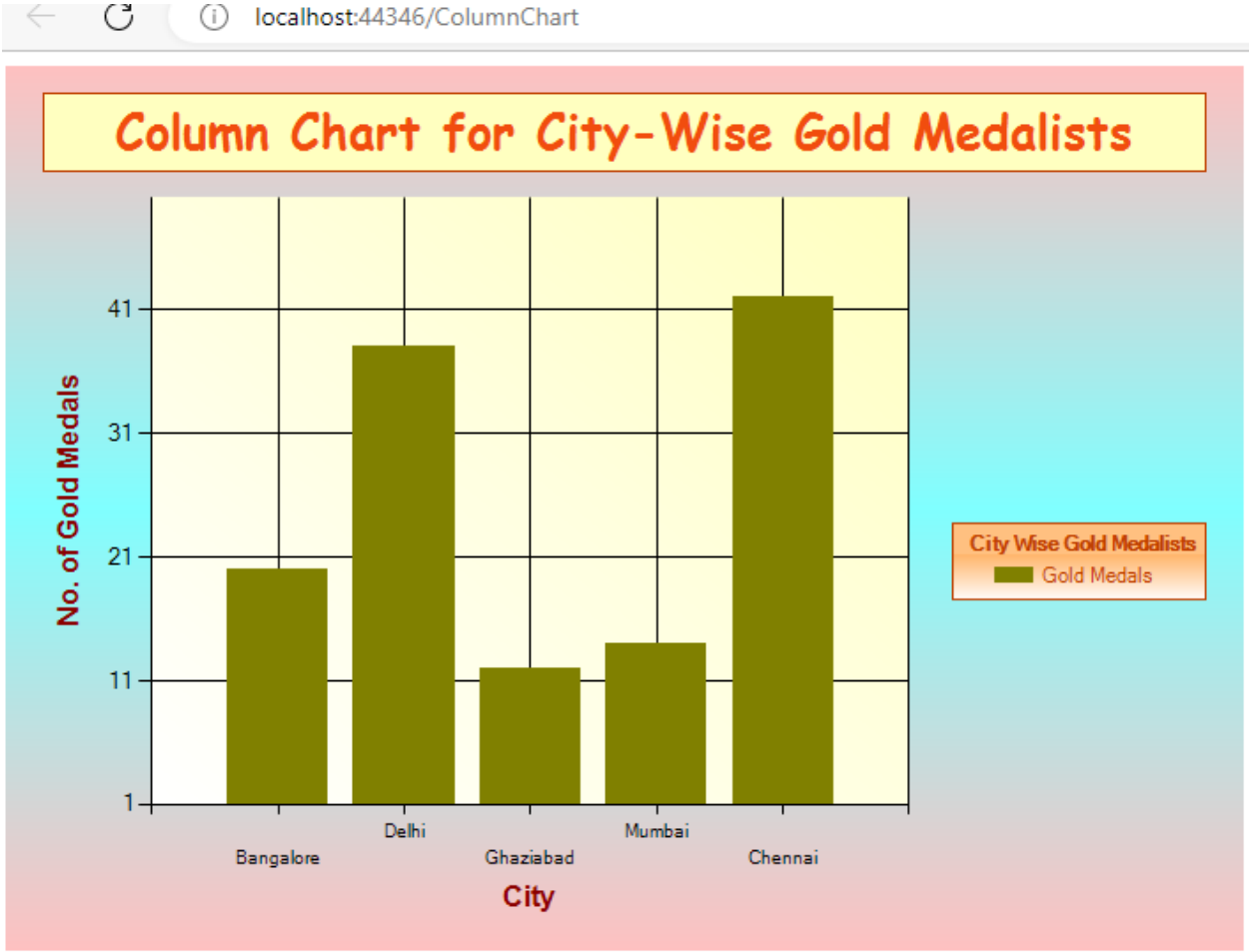
```
        ds = new DataSet();
        da.Fill(ds, "TP");
        Chart1.DataSource = ds;
        Chart1.DataBind();
    }
    protected void Page_Load(object sender, EventArgs e)
    {
        BindChart();
        Chart1.ChartAreas[0].AxisX.Interval = 2;
        Chart1.ChartAreas[0].AxisY.Minimum = 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:

Max Rows: 1000

	Id	State	Gold_Medalists
	1	Bangalore	20
	2	Delhi	38
	3	Ghaziabad	12
	4	Mumbai	14
	5	Chennai	42
	NULL	*NULL*	*NULL*

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">
<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

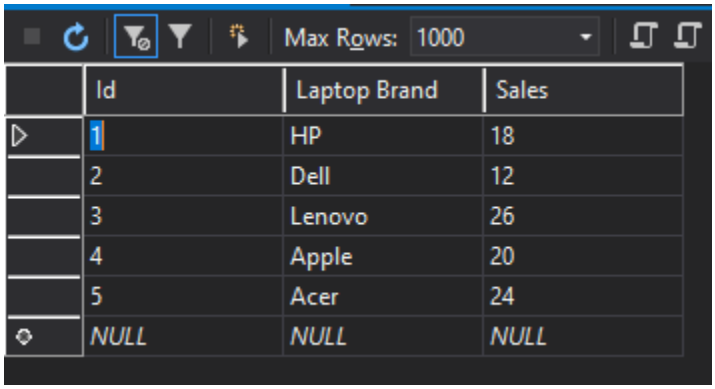
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
```

```
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



Id	Laptop Brand	Sales
1	HP	18
2	Dell	12
3	Lenovo	26
4	Apple	20
5	Acer	24
NULL	NULL	NULL

Output: