

Divyansh Jha
07713702021

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

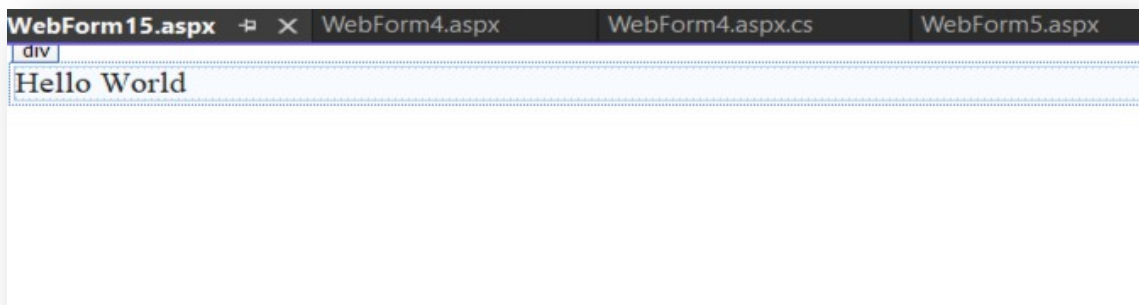
Ans.

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

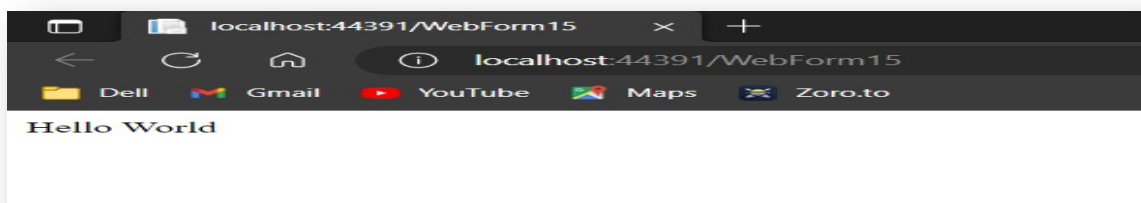
```
<!DOCTYPE html>
```

```
<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:



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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>
```

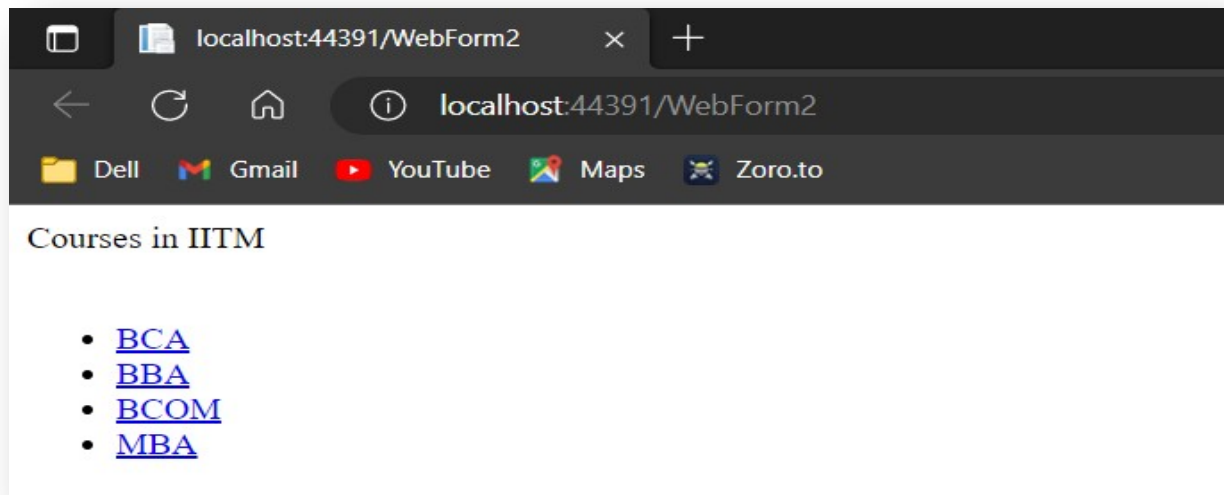
```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<div>
Courses in IITM<br />
  <asp:BulletedList ID="BulletedList1" runat="server" DisplayMode="LinkButton"
OnClick="BulletedList1_Click">
<asp:ListItem>BCA</asp:ListItem>
<asp:ListItem>BBA</asp:ListItem>
<asp:ListItem>BCOM</asp:ListItem>
<asp:ListItem>MBA</asp:ListItem>
</asp:BulletedList>
</div>
</form>
</body>
</html>
```

Design:



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Output:



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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 :&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>
```

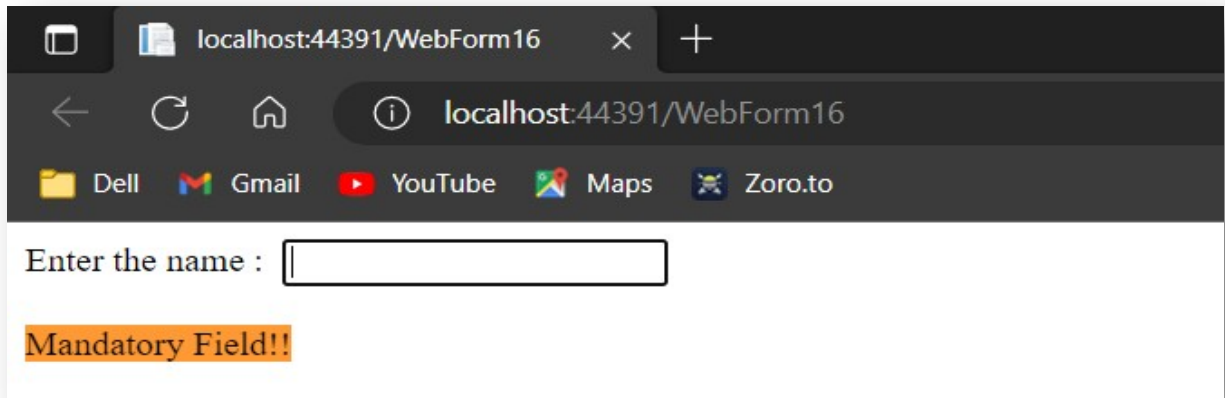
Design:



The screenshot shows a web page design with a title bar labeled 'body'. Inside, there is a text input field preceded by the label 'Enter the name :'. Below the input field, the message 'Mandatory Field!!' is displayed in a bold, orange font, indicating a validation error. The entire design is enclosed in a dashed border.

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Output:



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

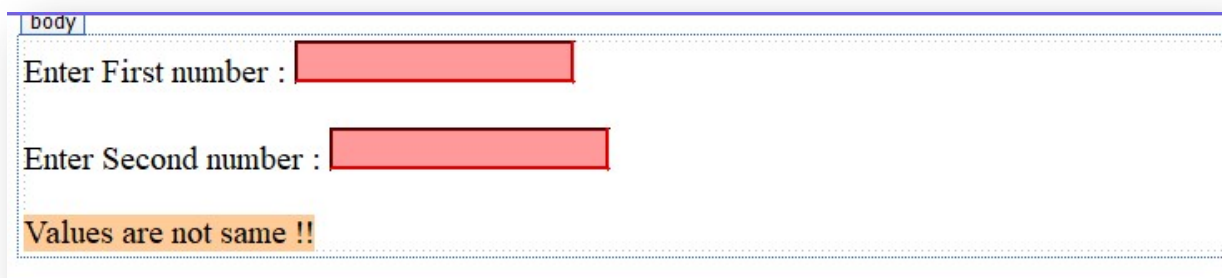
Ans.

```
<%@ 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 : &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>
```

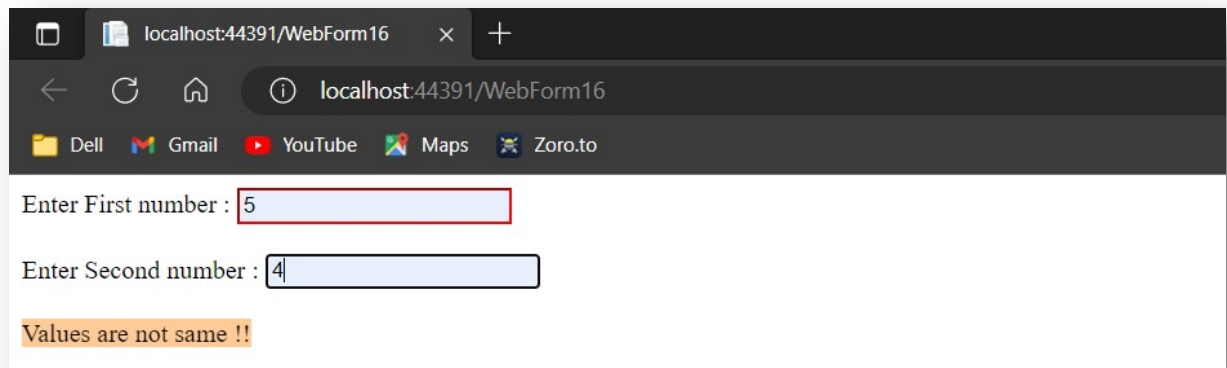
Design:



The screenshot shows a web page with a white background and a thin blue border. At the top, there is a tab labeled 'body'. Below the tab, the text 'Enter First number :' is followed by a red rectangular text box. Below this, the text 'Enter Second number :' is followed by another red rectangular text box. At the bottom, the text 'Values are not same !!' is displayed in a yellow background with black text.

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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 !!

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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:Text ID="TextBox4" runat="server" BackColor="#FF9999" BorderColor="Red"></asp:Text>
```



```
<asp:RangeValidator ID="RangeValidator1" runat="server" BackColor="#FFCC99"
```

```
ControlToValidate="TextBox4" ErrorMessage="RangeValidator" MaximumValue="50"
```

```
MinimumValue="18" Type="Integer">Out of range !!</asp:RangeValidator>
```

</form>

</body>

</html>

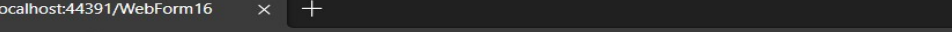
Design:

div

Enter the age of the employee [18-50] :

Out of range !!

OutputT



localhost:44391/WebForm16

localhost:44391/WebForm16

Enter the age of the employee [18-50] :

80

Out of range !!

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:

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body |

Enter Some Text :

The Field is Mandatory !!

- Error message 1.
- Error message 2.

Output:

localhost:44391/WebForm16 × +

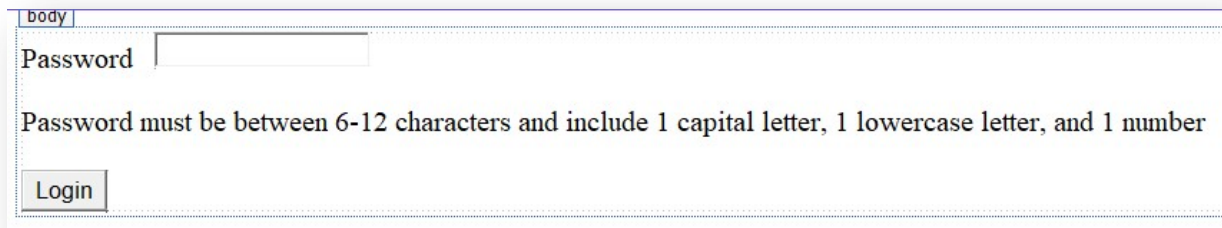
localhost:44391/WebForm16

Dell Gmail YouTube Maps Zoro.to

Enter Some Text :

The Field is Mandatory !!

- The filed can't be left blank



The screenshot shows a web form with a title bar labeled 'body'. Inside the form, there is a text input field labeled 'Password'. Below the input field, a validation message states: 'Password must be between 6-12 characters and include 1 capital letter, 1 lowercase letter, and 1 number'. At the bottom of the form, there is a 'Login' button.

C# code:

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

namespace WebApplication2
{
    public partial class WebForm11 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

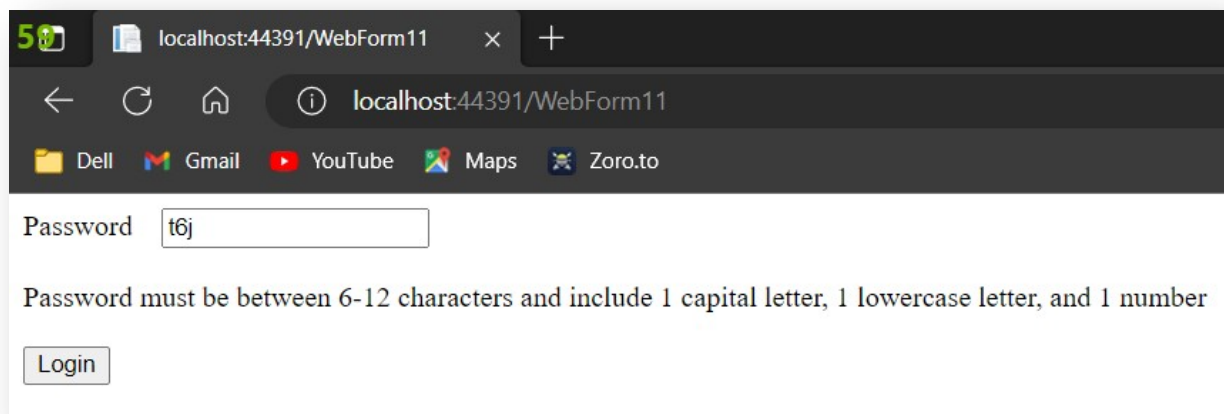
        }

        protected void CustomValidator1_ServerValidate(object source,
        ServerValidateEventArgs args)
        {
            string inputData = args.Value;
            args.IsValid = false;
            if (inputData.Length < 6 || inputData.Length > 12) return;
            bool upperCase = false;
            foreach (char ch in inputData)
            {
                if (ch >= 'A' && ch <= 'Z')
                {
                    upperCase = true;
                    break;
                }
            }
            if (!upperCase) return;
            bool lowerCase = false;
            foreach (char ch in inputData)
```

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```
{
  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:



The screenshot shows a web browser window with the address bar displaying 'localhost:44391/WebForm11'. The browser's address bar and tabs are visible at the top. Below the address bar, there is a search bar and several icons for 'Dell', 'Gmail', 'YouTube', 'Maps', and 'Zoro.to'. The main content area of the browser displays a form with a label 'Password' followed by a text input field containing the text 't6j'. Below the input field, there is a message: 'Password must be between 6-12 characters and include 1 capital letter, 1 lowercase letter, and 1 number'. At the bottom of the form, there is a 'Login' button.

Q10. Write a program to use FileUpload control.

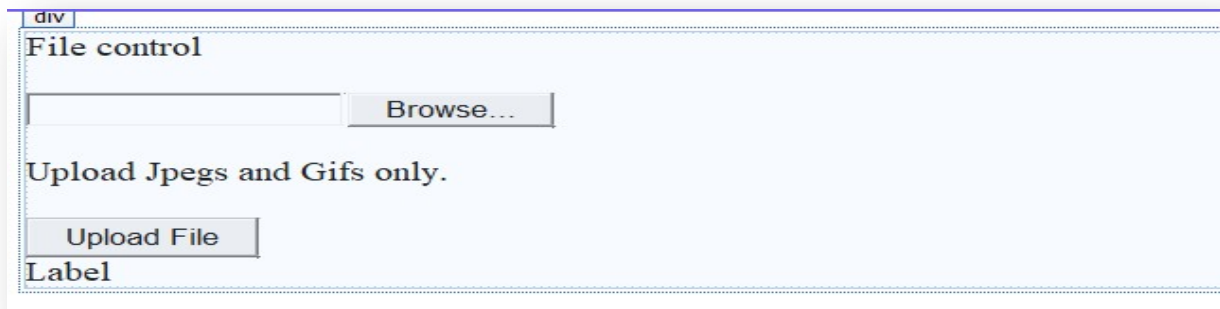
Ans.

```
<%@ 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
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:



The screenshot shows a web form with a title bar labeled 'div'. The form has a light blue background and a dotted border. It contains the following elements from top to bottom: a text input field, a 'Browse...' button, the text 'Upload Jpegs and Gifs only.', an 'Upload File' button, and a 'Label'.

C# code:

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

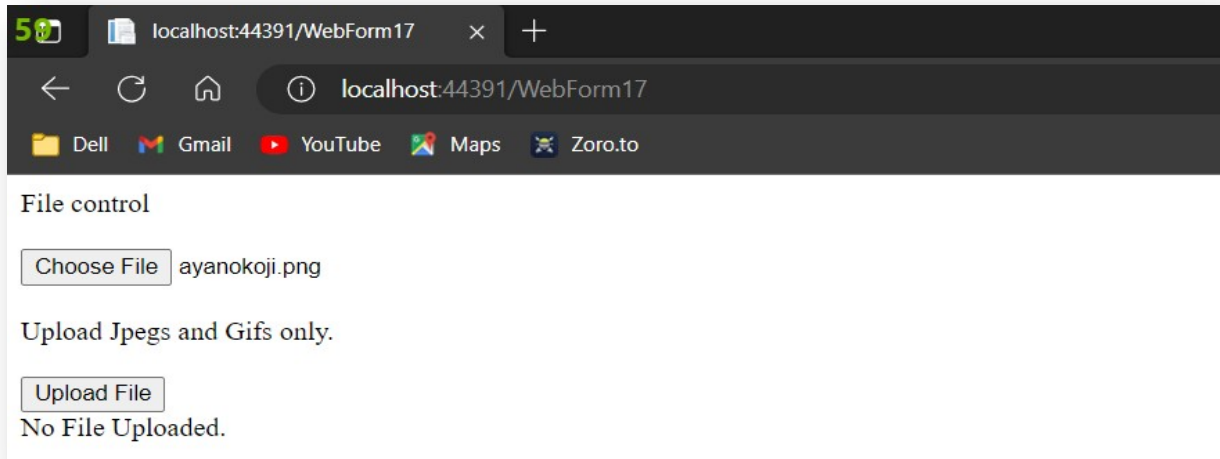
namespace WebApplication2
{
    public partial class WebForm17 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        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.";
            }
        }
    }
}
```

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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>

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<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:

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body				
ID	Name	DOB	Enroll. no.	Course
0	abc	abc	abc	abc
1	abc	abc	abc	abc
2	abc	abc	abc	abc
3	abc	abc	abc	abc
4	abc	abc	abc	abc
SqlDataSource - SqlDataSource1				

C# code:

```
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 WebApplication3
```

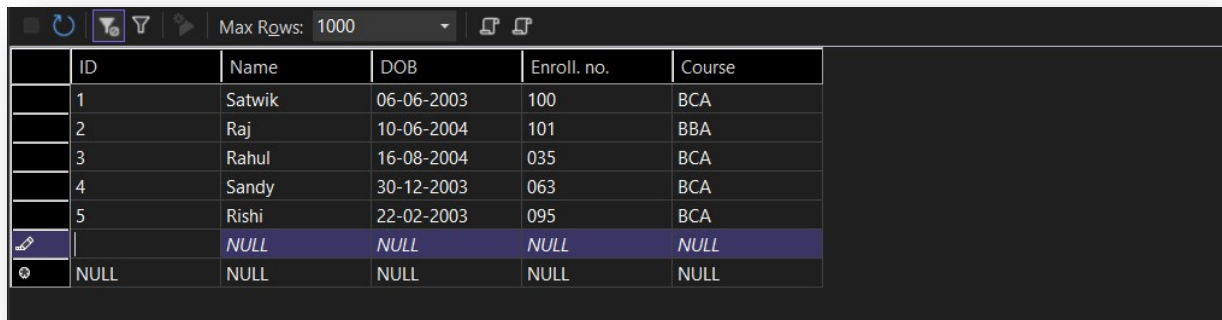
```
{
    public partial class WebForm2 : System.Web.UI.Page
```

```
    {
        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:

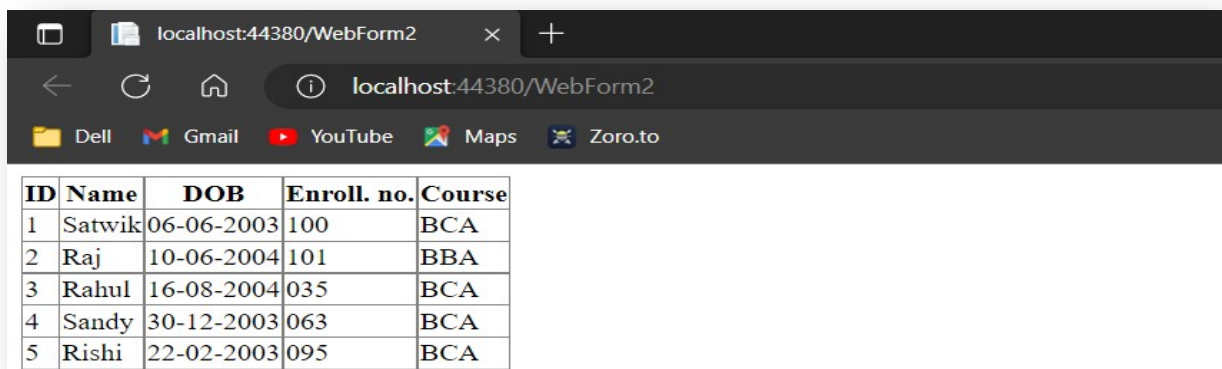
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A screenshot of a database management tool interface. At the top, there is a toolbar with icons for refresh, filter, and other functions, along with a 'Max Rows: 1000' dropdown. Below the toolbar is a table with 6 columns: ID, Name, DOB, Enroll. no., and Course. The table contains 6 rows of data. The 5th row is highlighted in blue. The 6th row contains NULL values for Name, DOB, Enroll. no., and Course.

	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:



A screenshot of a web browser window. The address bar shows 'localhost:44380/WebForm2'. The browser has several tabs and bookmarks. Below the browser window is a table with 5 columns: ID, Name, DOB, Enroll. no., and Course. The table contains 5 rows of data.

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

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```
<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");
    }

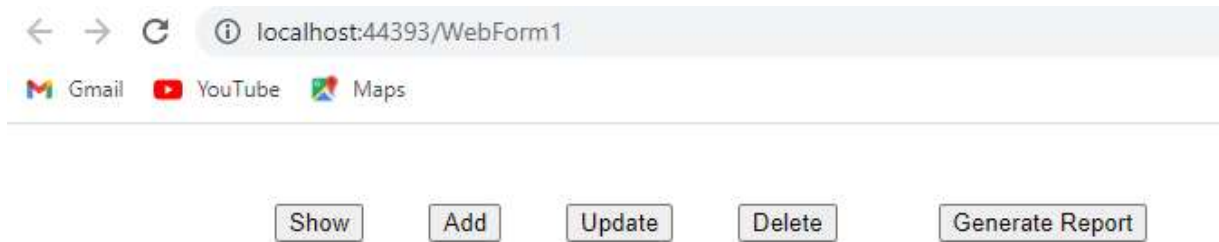
    protected void Button3_Click(object sender, EventArgs e)
    {
        Response.Redirect("WebForm4.aspx");
    }

    protected void Button4_Click(object sender, EventArgs e)
    {
        Response.Redirect("WebForm5.aspx");
    }
}
```

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```
    }  
    }  
}
```

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">
```

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```
        </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)
        {
```

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```
        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;

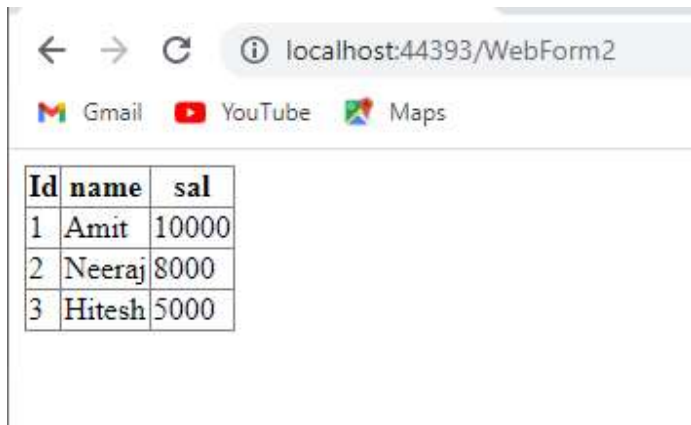
        GridView1.DataBind();

        con.Close();

    }

}
```

Output



The screenshot shows a web browser window with the address bar displaying 'localhost:44393/WebForm2'. Below the address bar, there are search bars for Gmail, YouTube, and Maps. The main content area displays a table with three columns: 'Id', 'name', and 'sal'. The table contains three rows of data: (1, Amit, 10000), (2, Neeraj, 8000), and (3, Hitesh, 5000).

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>

```
<table border="1">
  <tr>
    <td>1</td>
    <td>2</td>
    <td>3</td>
    <td>4</td>
    <td>5</td>
    <td>6</td>
    <td>7</td>
    <td>8</td>
    <td>9</td>
    <td>10</td>
    <td>11</td>
    <td>12</td>
    <td>13</td>
    <td>14</td>
    <td>15</td>
    <td>16</td>
    <td>17</td>
    <td>18</td>
    <td>19</td>
    <td>20</td>
    <td>21</td>
    <td>22</td>
    <td>23</td>
    <td>24</td>
    <td>25</td>
    <td>26</td>
    <td>27</td>
    <td>28</td>
    <td>29</td>
    <td>30</td>
    <td>31</td>
    <td>32</td>
    <td>33</td>
    <td>34</td>
    <td>35</td>
    <td>36</td>
    <td>37</td>
    <td>38</td>
    <td>39</td>
    <td>40</td>
    <td>41</td>
    <td>42</td>
    <td>43</td>
    <td>44</td>
    <td>45</td>
    <td>46</td>
    <td>47</td>
    <td>48</td>
    <td>49</td>
    <td>50</td>
    <td>51</td>
    <td>52</td>
    <td>53</td>
    <td>54</td>
    <td>55</td>
    <td>56</td>
    <td>57</td>
    <td>58</td>
    <td>59</td>
    <td>60</td>
    <td>61</td>
    <td>62</td>
    <td>63</td>
    <td>64</td>
    <td>65</td>
    <td>66</td>
    <td>67</td>
    <td>68</td>
    <td>69</td>
    <td>70</td>
    <td>71</td>
    <td>72</td>
    <td>73</td>
    <td>74</td>
    <td>75</td>
    <td>76</td>
    <td>77</td>
    <td>78</td>
    <td>79</td>
    <td>80</td>
    <td>81</td>
    <td>82</td>
    <td>83</td>
    <td>84</td>
    <td>85</td>
    <td>86</td>
    <td>87</td>
    <td>88</td>
    <td>89</td>
    <td>90</td>
    <td>91</td>
    <td>92</td>
    <td>93</td>
    <td>94</td>
    <td>95</td>
    <td>96</td>
    <td>97</td>
    <td>98</td>
    <td>99</td>
    <td>100</td>
  </tr>
</table>
Insert a
Record<br />
```


Employee ID;

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


Employee

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[illegible]

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


[illegible][illegible]`<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>`

[illegible]

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

</div>

</form>

</body>

</html>

WebForm3.aspx.cs

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```
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();
```

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```
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 Successfully");
```

```
else
```

```
    Response.Write("Record not inserted");
```

```
}
```

```
}
```

```
}
```

Output

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← → ↻ ⓘ localhost:44393/WebForm3

[Gmail](#) [YouTube](#) [Maps](#)

Insert a Record

Employee ID	<input type="text" value="12321"/>
Employee Name	<input type="text" value="Rama"/>
Salary	<input type="text" value="7500"/>

← → ↻ ⓘ localhost:44393/WebForm3

[Gmail](#) [YouTube](#) [Maps](#)

Record Inserted Successfully

Insert a Record

Employee ID	<input type="text" value="12321"/>
Employee Name	<input type="text" value="Rama"/>
Salary	<input type="text" value="7500"/>

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>
```

[illegible]

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```
</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()
        {
```

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```
        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.");
```

```
}
```

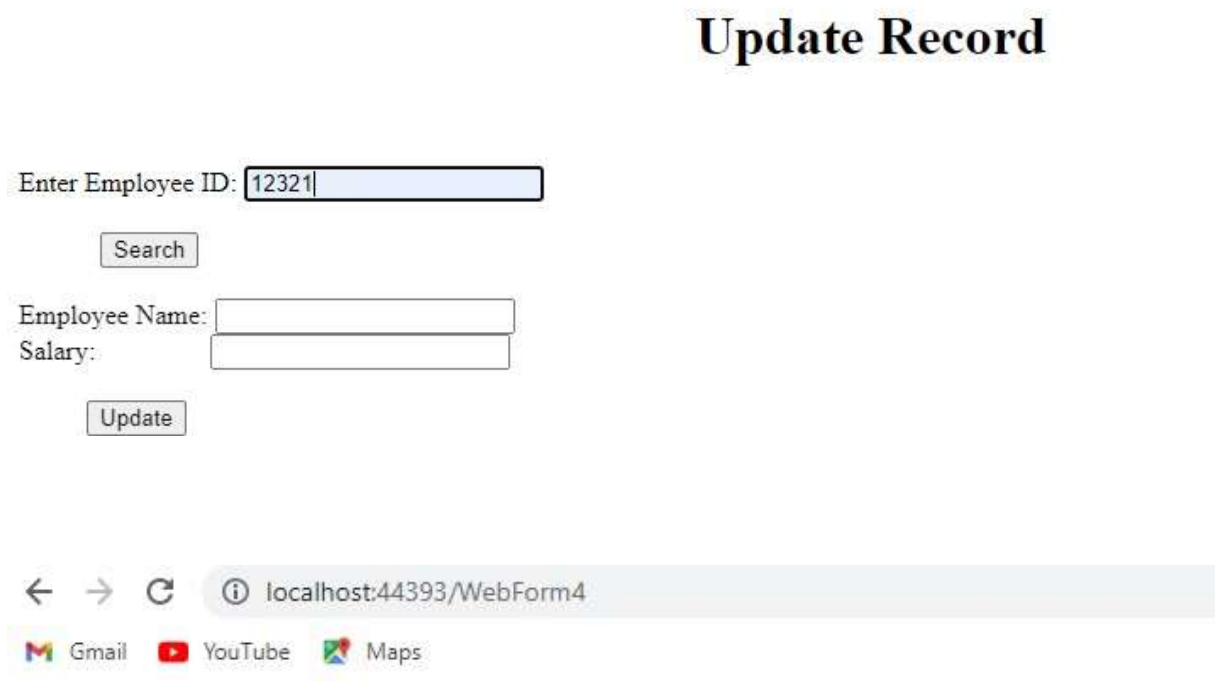
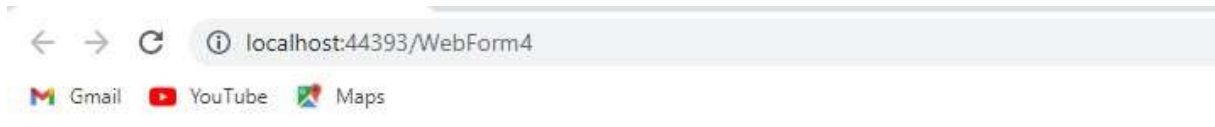
```
protected void Button1_Click(object sender, EventArgs e)
```

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```
{  
    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

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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>

[illegible]

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


[illegible]

```
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Click  
to Delete" />
```


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</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)

{

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```
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



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localhost:44393/WebForm5

Gmail YouTube Maps

record deleted successfully

Enter the Employee Id to Delete

12321

Click to Delete

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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>
```

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```
<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)

        {

        }

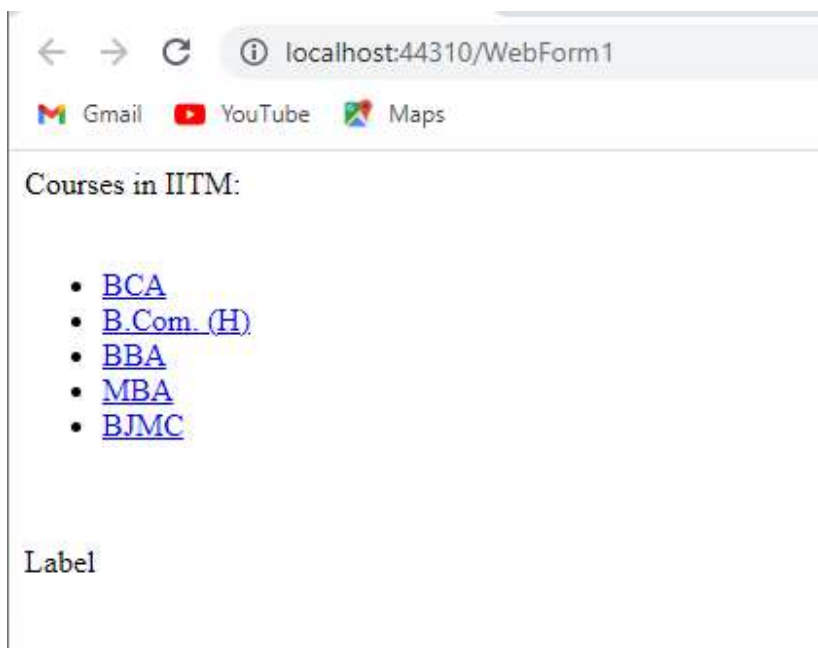
    }

}
```

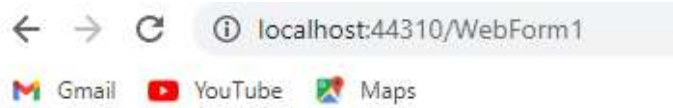
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```
protected void BulletedList1_Click(object sender, BulletedListEventArgs e)
{
    String str = "";
    Response.Write(sender.ToString());
    int counter = 0;
    foreach(ListItem li in BulletedList1.Items)
    {
        counter++;
    }
    str = "Total Number of Courses are " + counter;
    Label1.Text = str;
}
}
```

Output



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

- [BCA](#)
- [B.Com. \(H\)](#)
- [BBA](#)
- [MBA](#)
- [BJMC](#)

Total Number of Courses are 5

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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.

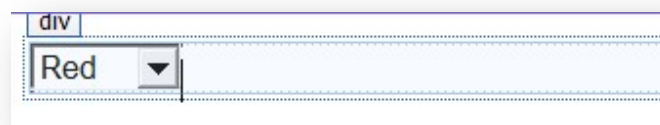
Source code:

```
<%@ 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:

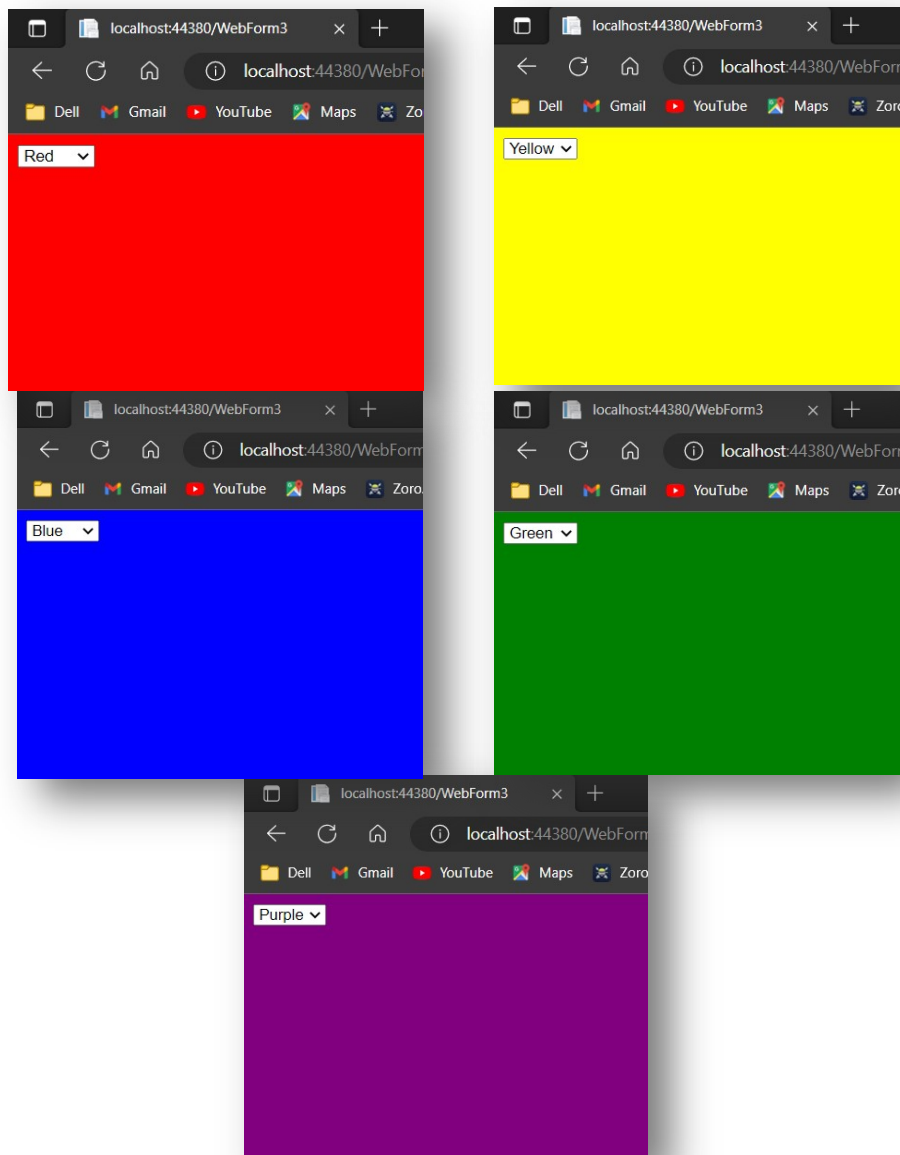
```
using System;  
using System.Collections.Generic;  
using System.Linq;  
using System.Web;  
using System.Web.UI;  
using System.Web.UI.WebControls;
```

```
namespace WebApplication3
```

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```
{  
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>
```

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<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>

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<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:



div

Game you like :

☐ God of War

☐ GTA

☐ Genshin Impact

☐ Valorant

☐ NieR

Label

C# code:

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

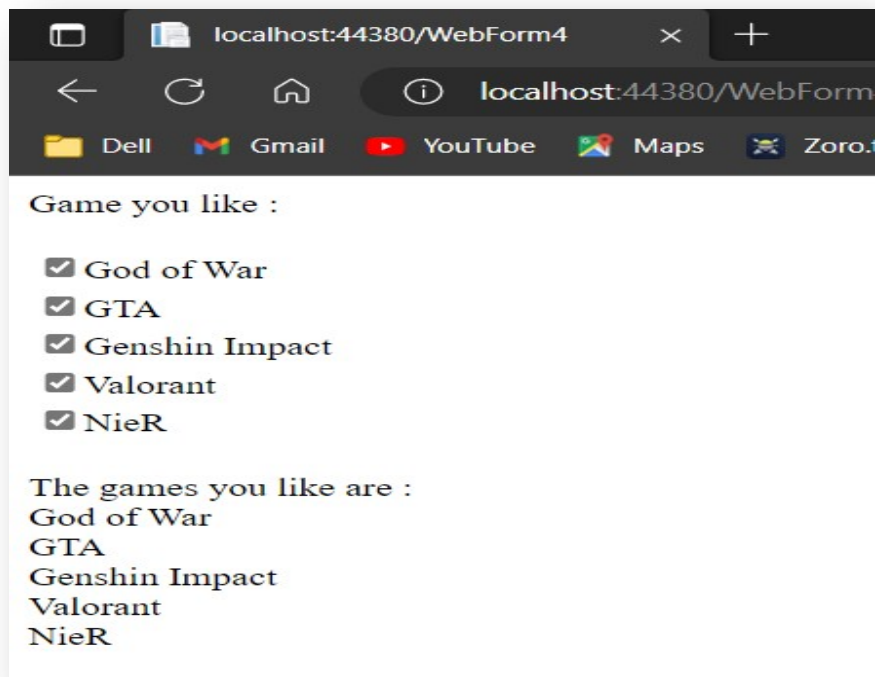
namespace WebApplication3
{
    public partial class WebForm4 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        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:

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07713702021



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:



form#form1

Game you like :

☐ God of War

☐ GTA

☐ Genshin Impact

☐ Valorant

☐ NieR

Label

C# code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.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/>";
```

```
        }
```

```
    }
```

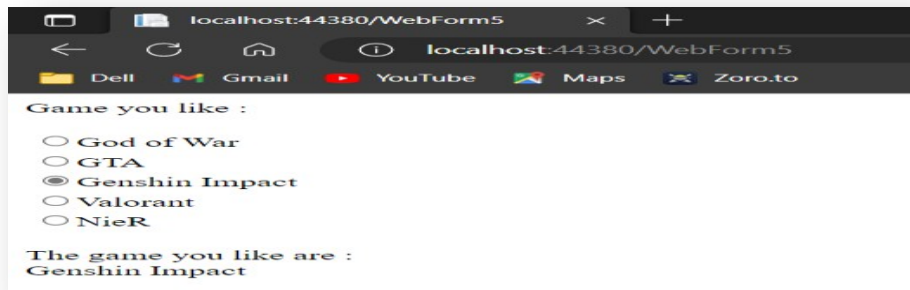
```
}
```

```
}
```


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07713702021

}

Output:



Divyansh Jha
07713702021

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>
```

Divyansh Jha
07713702021

```
<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

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07713702021

```
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();
        }
    }
}
```

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```
        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;

    }

}
```

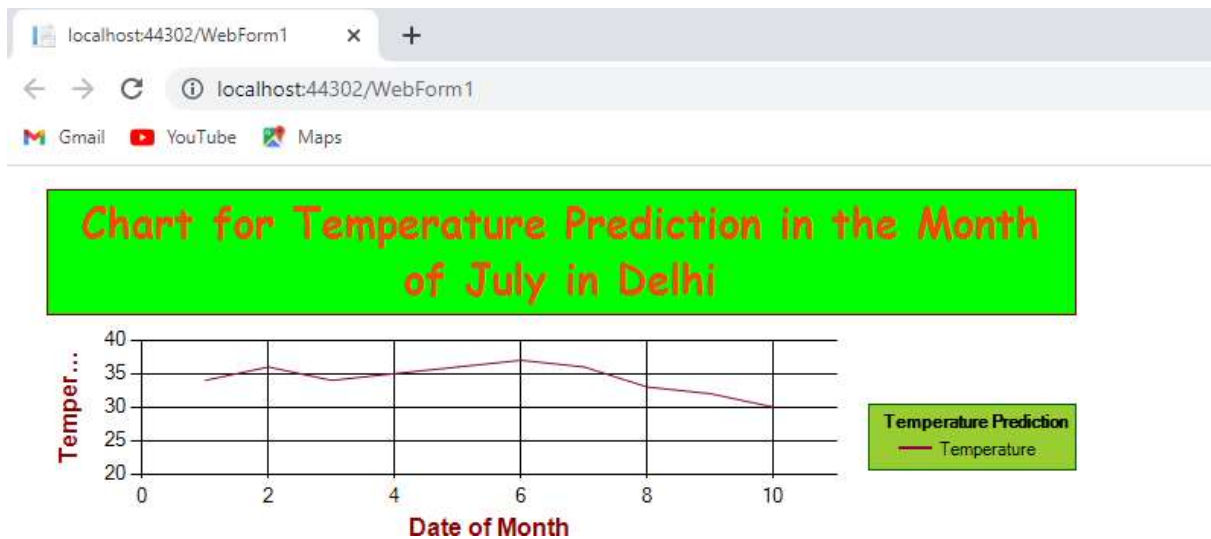
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}

Database Table (Temperatures)

	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:



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07713702021

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>
```

Divyansh Jha
07713702021

```
<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;

Divyansh Jha
07713702021

```
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);
```

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07713702021

```
        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;

    }

}

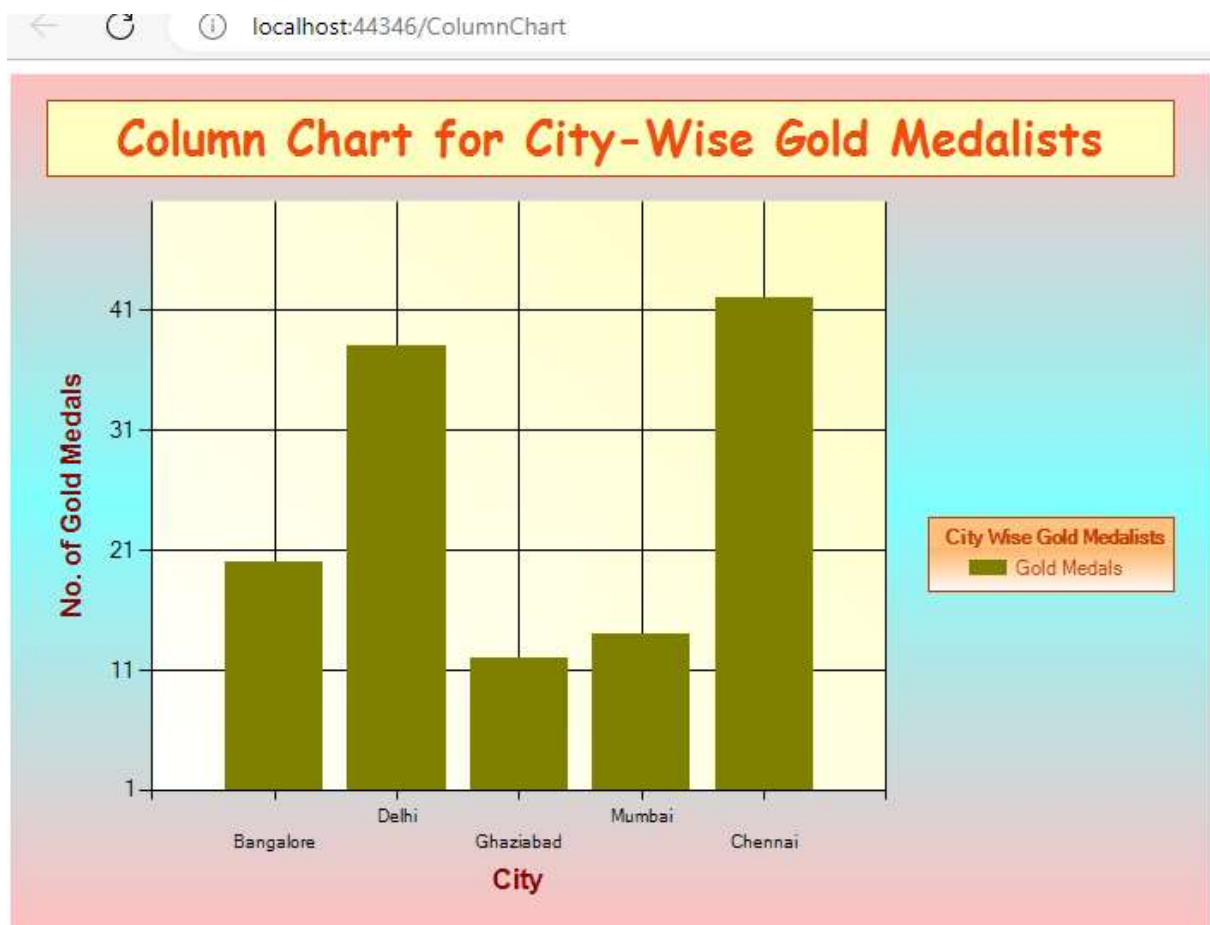
}
```

Database table:

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07713702021

	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">
```

Divyansh Jha
07713702021

```
</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;
```

Divyansh Jha
07713702021

```
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");
        }
    }
}
```

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07713702021

```
        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";

    }
}
```

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07713702021

}

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:

