Web Application Development-I (Using C#)

Unit-2

Program-1:

Write a program containing the following controls:

- **A DropDownList**
- **A Button**
- **A Label**

The DropDownList is used to list items available in a store. When the user clicks on an item in the DropDownList, the cost of the selected item is displayed in the label control. The Form title must be ASP.NET. A button must be in the center of a form.

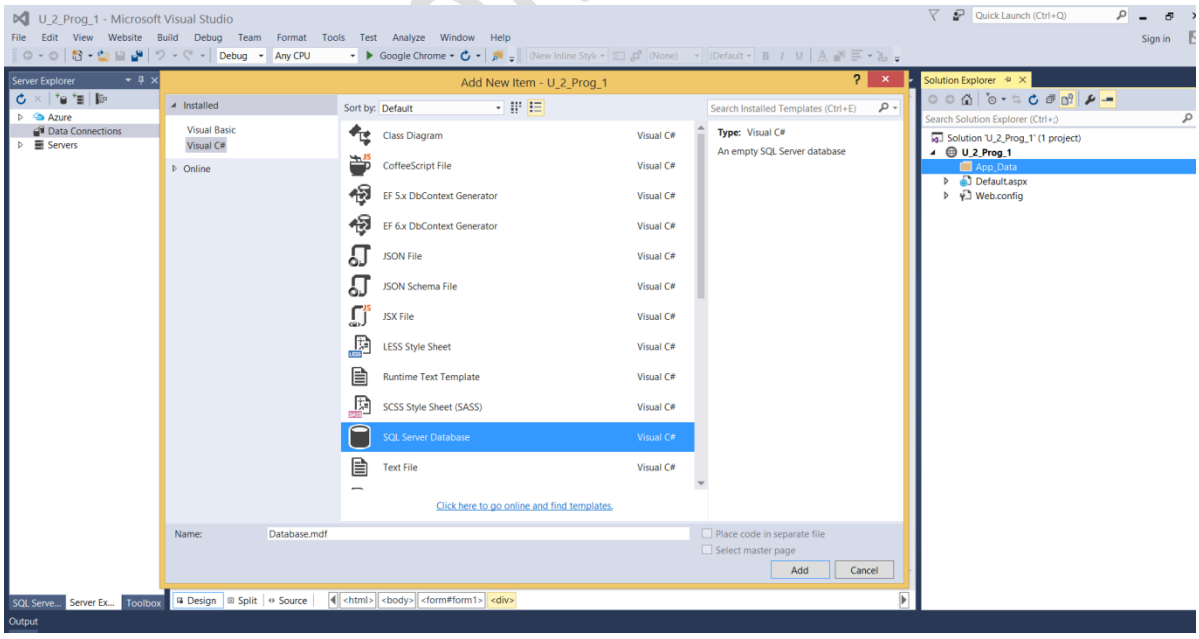
Add the following more controls:

- **Two labels**
- **A TextBox**
- **A Button**

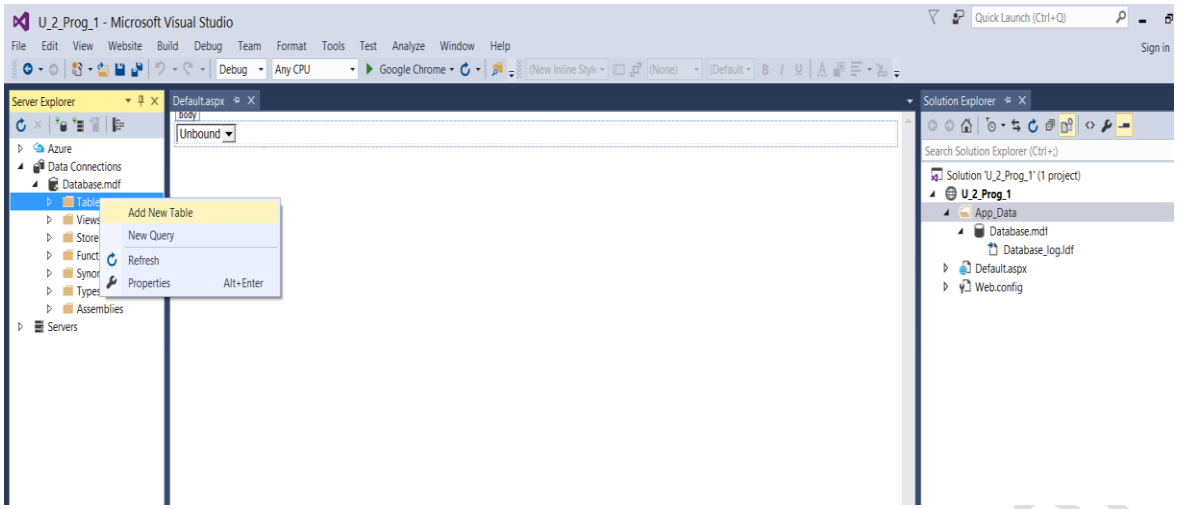
One of the labels is displayed adjacent to the textbox, displaying the message "Enter the quantity:" When the user enters the quantity in the textbox and clicks the button, the total cost is evaluated and displayed in another label.

Step-1 :

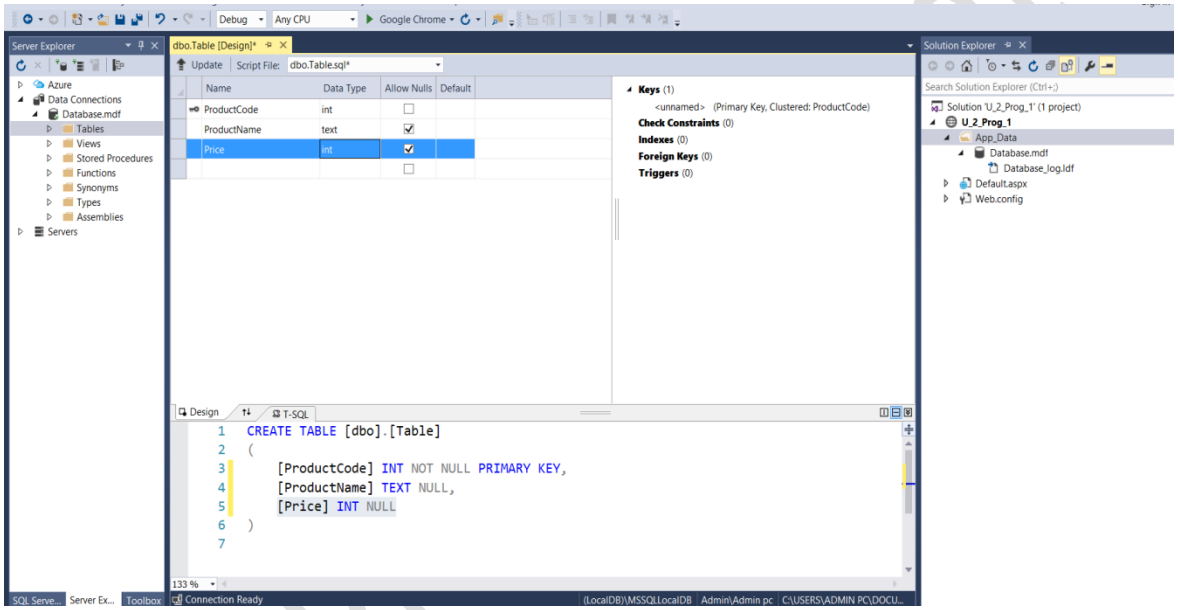
Solution Explorer -> Right Click on Website -> Add ASP.Net Folder -> App_Data -> Add -> Add New Item -> Sql Database Server



Step-2: Server Explorer -> Right Click On Table -> Add New table.

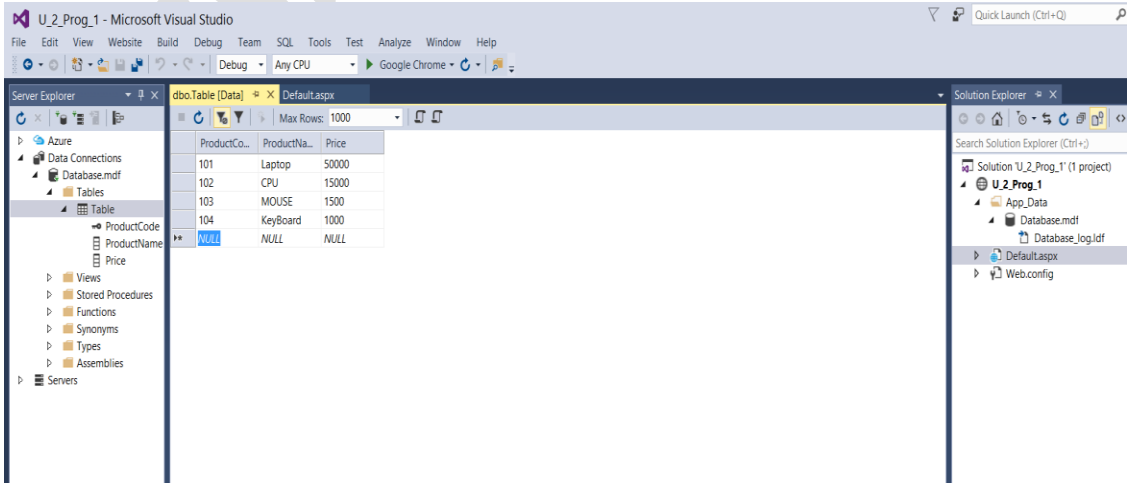


Step-3: Create new table and add Fields as shown below:

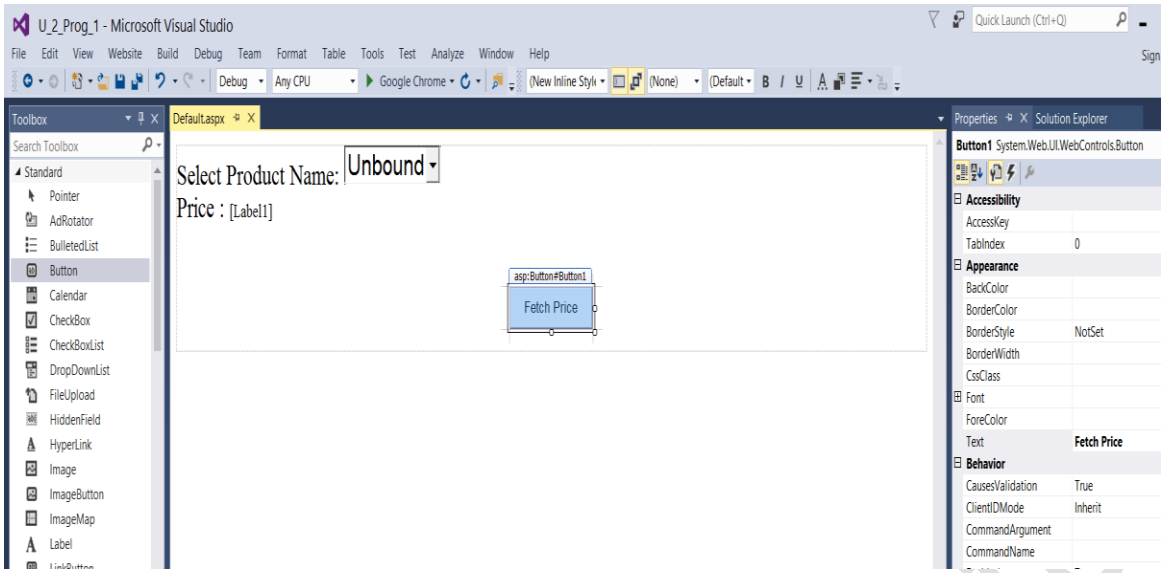


Step-4 : Now save table and give table name .

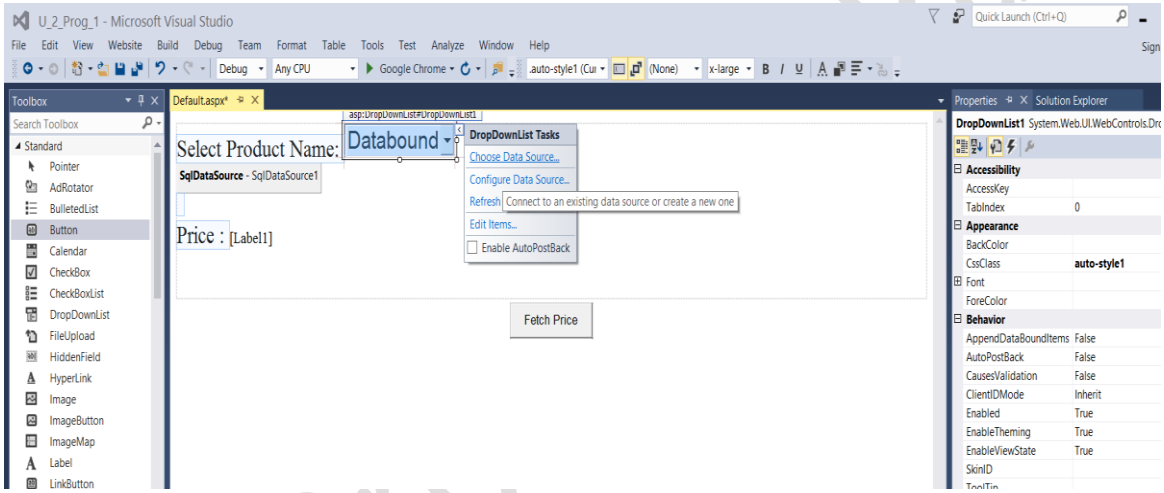
Step-5 : right click on table name -> Show table data -> add data

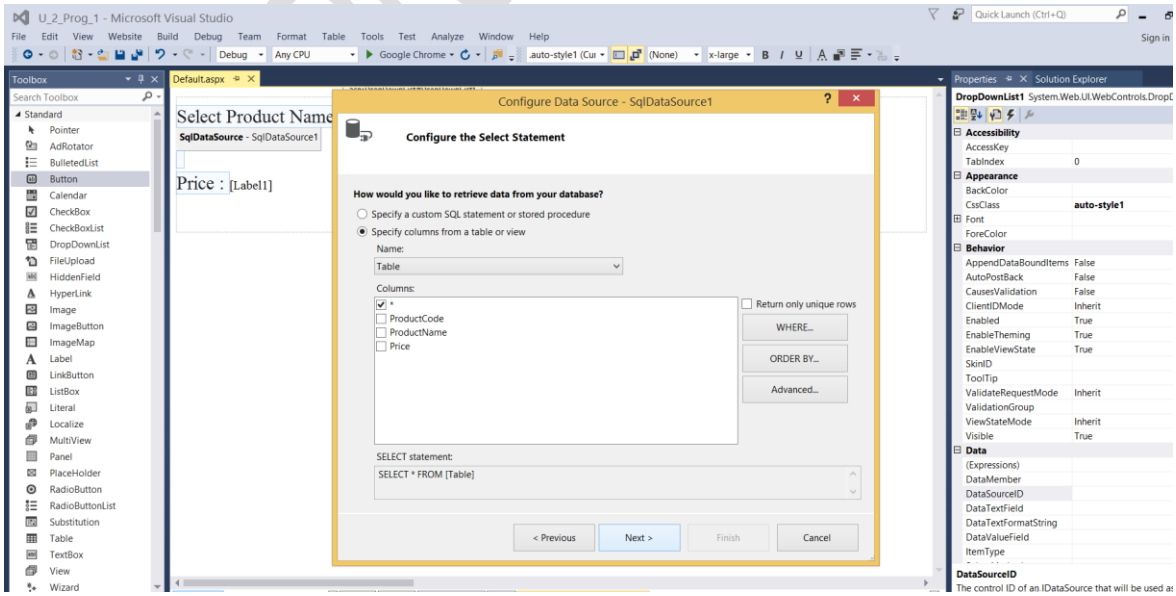


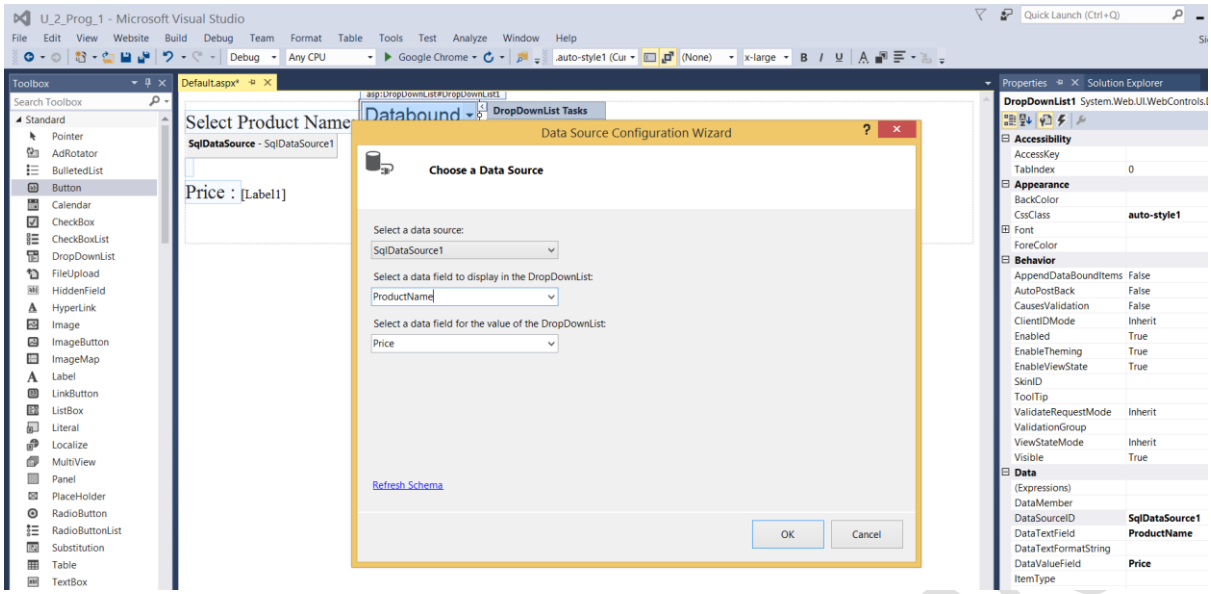
Step-6: Now Add a Dropdownlist , a label and a Button in Default.aspx



Step-7: Now Add Datasource to bound data in Dropdownlist.

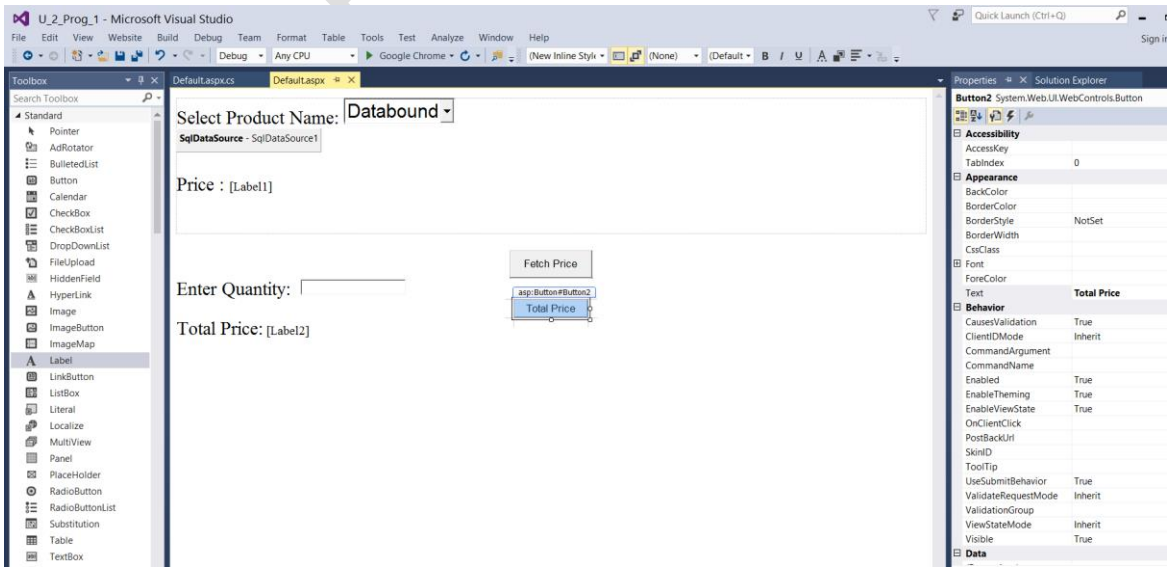






Step- 8 : Write code on Button_click event.

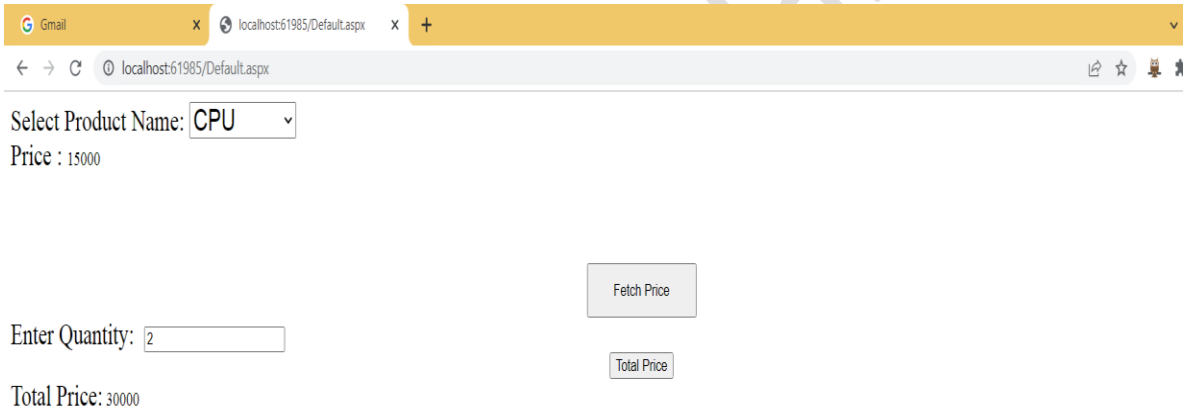
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

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

    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label1.Text = DropDownList1.SelectedValue;
    }
}
```



Step-9 : Write code on Button2_click events.

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

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

    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label1.Text = DropDownList1.SelectedValue;
    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        int tprice = Convert.ToInt16(Label1.Text) * Convert.ToInt16(TextBox1.Text);
        Label2.Text = Convert.ToString(tprice);
    }
}
```

OutPut:

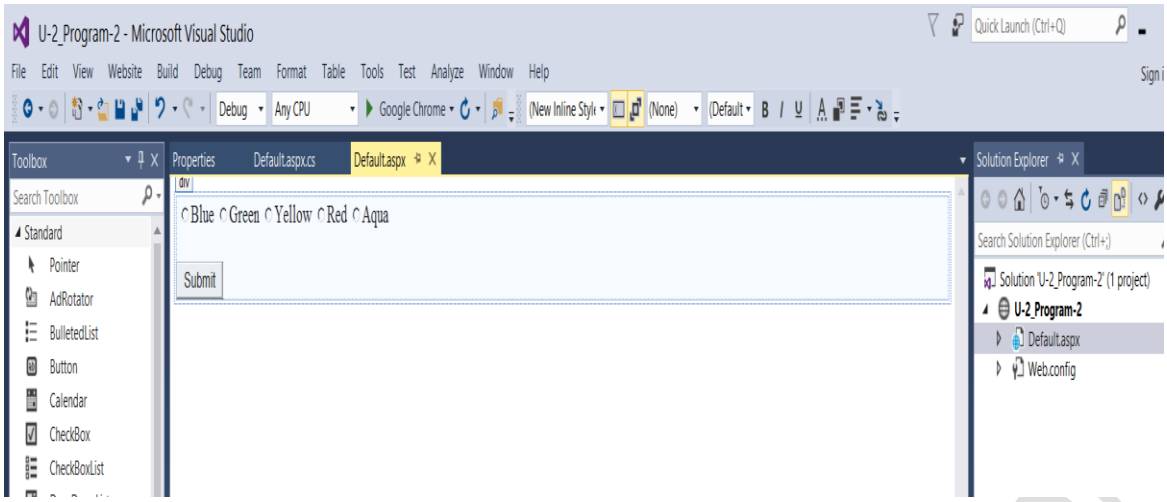


Program-2:

Create a RadioButtonList that displays the names of some colors in two columns. Add a button to the Web Form which when clicked changes the color of the Form to the color selected from the list.

Step-1: Create Default.aspx and add a radioButtonList And a Button.

Step-2: Add items In Radio Button List Shown Below:



Step-3: Now Give id Of Body id=’myBody’ and runat =”server”.

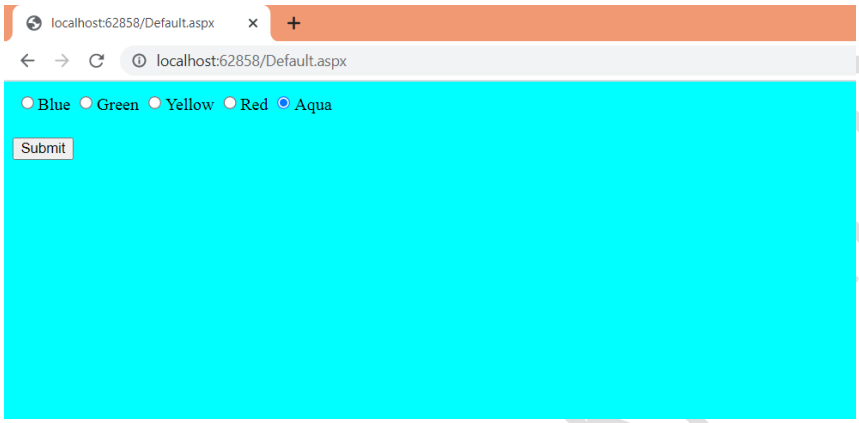
```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>

<!DOCTYPE html>

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

        <asp:RadioButtonList ID="RadioButtonList1" runat="server"
RepeatDirection="Horizontal">
            <asp:ListItem>Blue</asp:ListItem>
            <asp:ListItem>Green</asp:ListItem>
            <asp:ListItem>Yellow</asp:ListItem>
            <asp:ListItem>Red</asp:ListItem>
            <asp:ListItem>Aqua</asp:ListItem>
        </asp:RadioButtonList>

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

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

Step-4: Write code on Button_click event.

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

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

```
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        String clr = "white";
        foreach(ListItem i in RadioButtonList1.Items)
        {
            if(i.Selected==true)
            clr = i.Text;
        }
        myBody.Style[HtmlTextWriterStyle.BackgroundColor] = clr;
    }
}
```

Output:

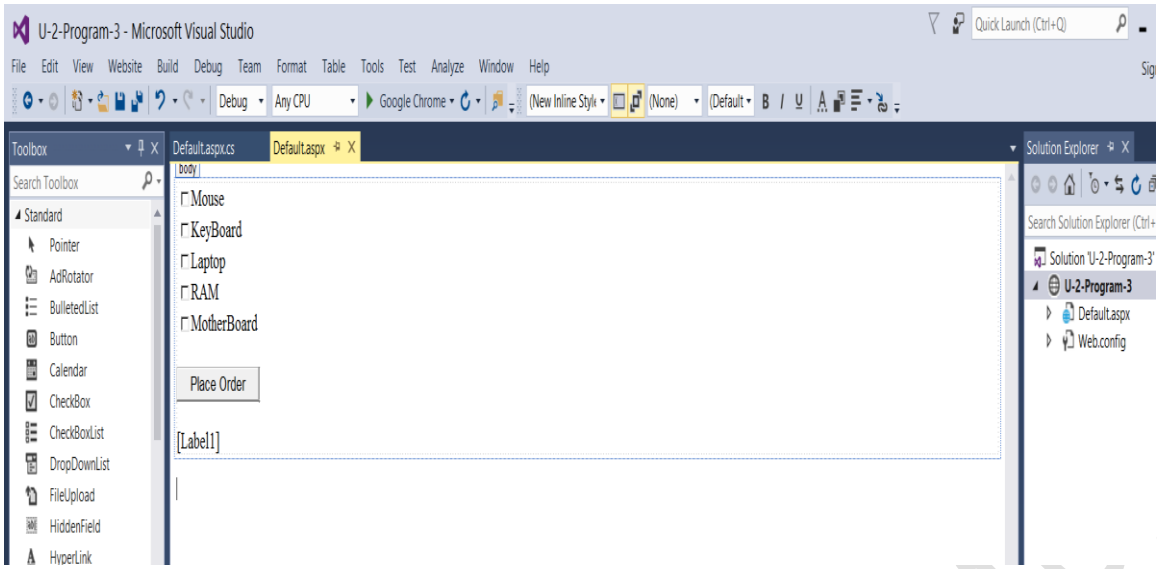


Program-3:

Create a web page having checkboxlist control shows different products. Web page should have a button and a label. On the click event of the button shows the message "Thank You for placing the order of following items" and then list of all products selected by the user in the checkboxlist server control. Each selected product should be displayed in the new line.

Step-1: add Default.aspx file and add a checkboclist,a button, a label.

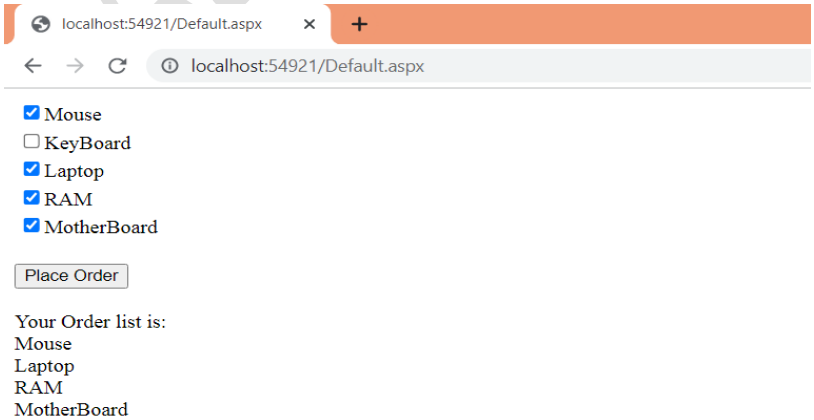
Step-2: add items in checkboxlist.



Step-4: write code in button_click event.

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

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

    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label1.Text = "Your Order list is: <br>";
        foreach(ListItem i in CheckBoxList1.Items)
        {
            if (i.Selected == true)
                Label1.Text = Label1.Text + i.Text+"<br>";
        }
    }
}
```

Output:



Program-4:

Write a simple Web application which keeps track of the number of times a user has visited the page from the same machine. The application keeps track of this information by storing this counter value in a persistent cookie at the client's machine.

Step-1: Add Default.aspx.and add a label.

Step-2 : Write code on page_load event.

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

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        int cnt = 1;
        if(Request.Cookies["myCookies"]!=null)
        {
            cnt = Convert.ToInt16(Request.Cookies["myCookies"].Value);
            cnt++;
        }
        HttpCookie ck = new HttpCookie("myCookies");
        ck.Value = Convert.ToString(cnt);
        Response.Cookies.Add(ck);
        Label1.Text = "<b>This page is visited "+Convert.ToString(cnt)+" times on this
computer</b>";
    }
}
```

Output:

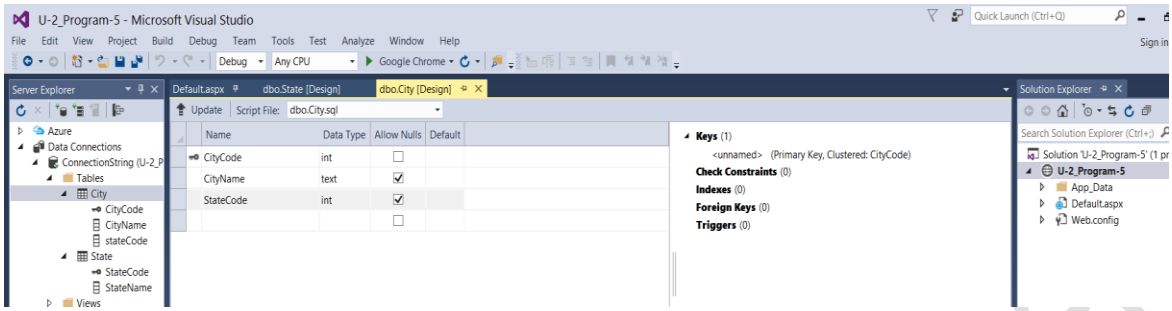
Program- 5:

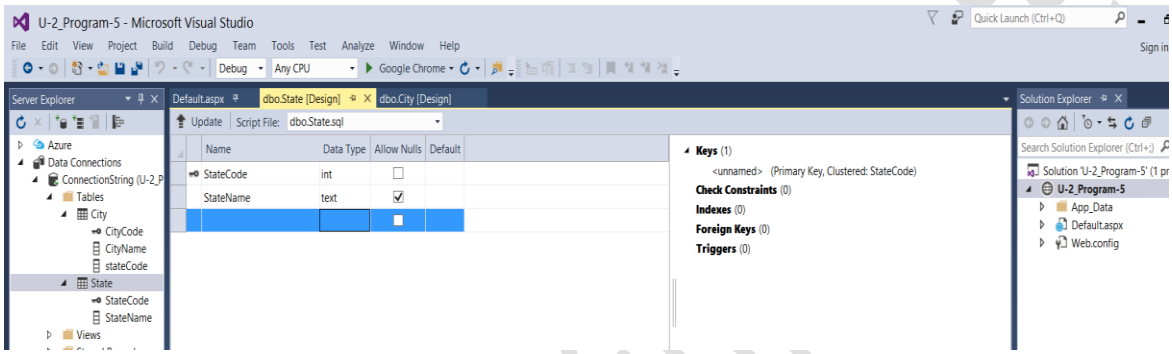
Display name of country in dropdown list when page is loaded. Allow the user to select the country and display the name of states of that country selected by user in another dropdown list. (Also perform through datareader)

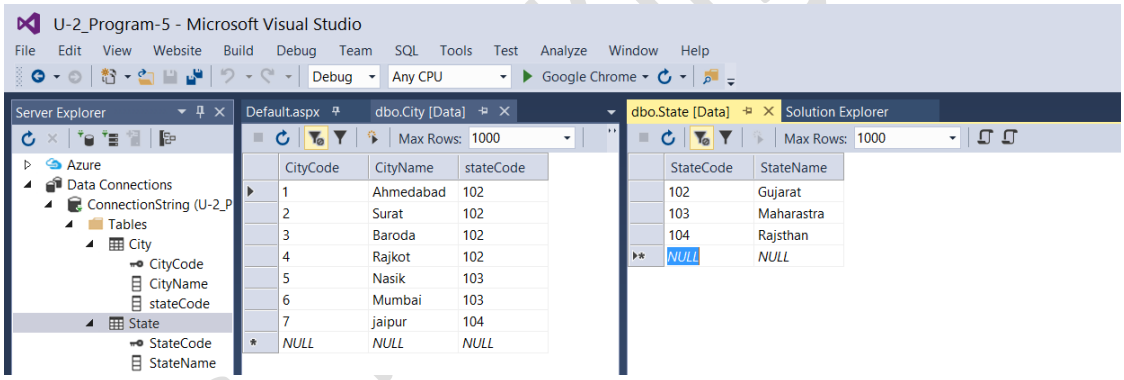
Step-1: Add Default.aspx and add 2 Dropdownlist .

Step-2: Now create Database in \APP_Data folder

Step-3: Add Two tables and insert data in table.

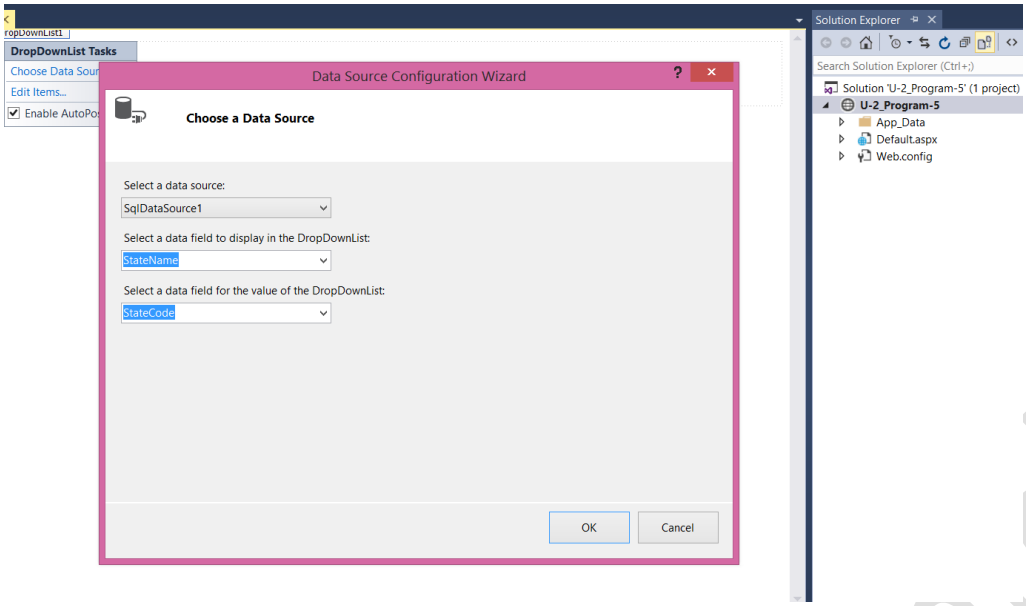






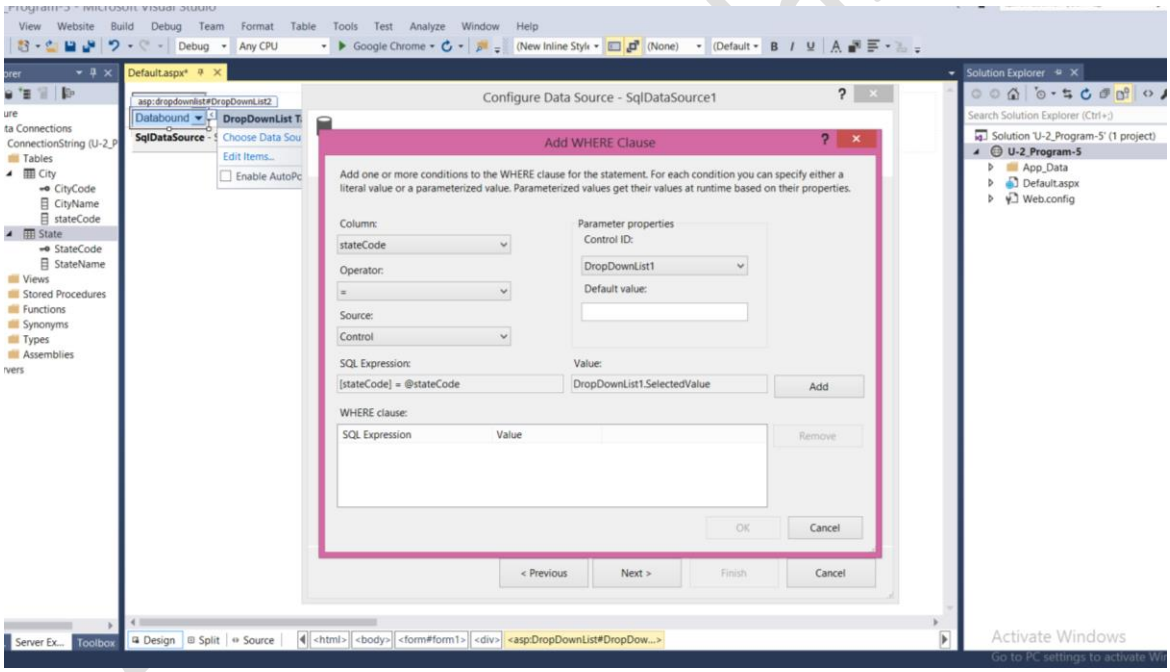
Step-4: Set DropDownList1 Enable PostBack Property true.

Step-5: Select New Data Source in DropDownList1 and select state table in it.

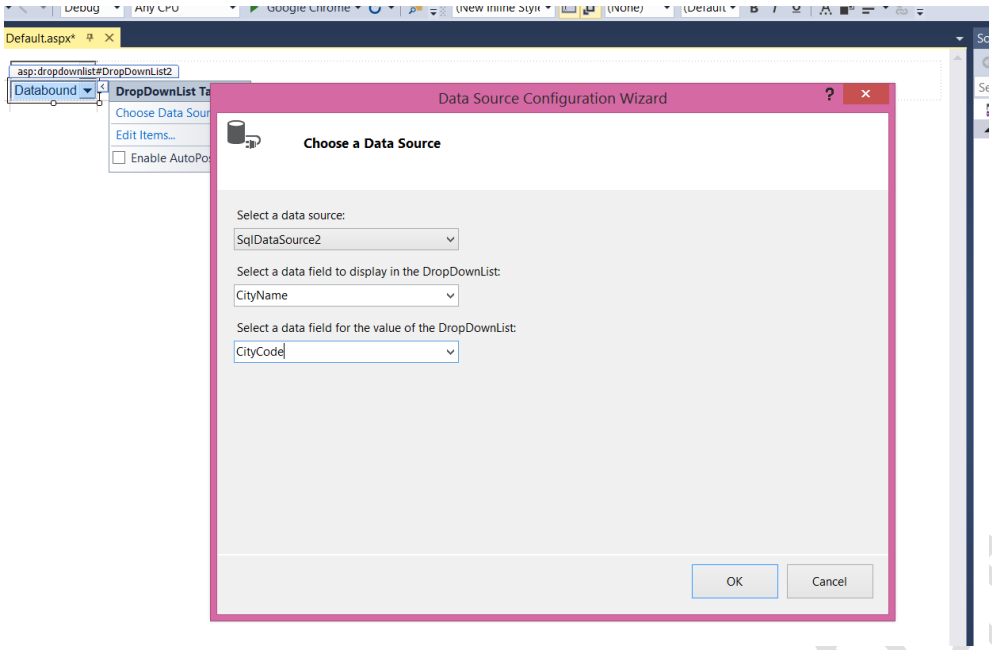


Step-6: Select DropDownList2 And add New Data source in it and select city table.

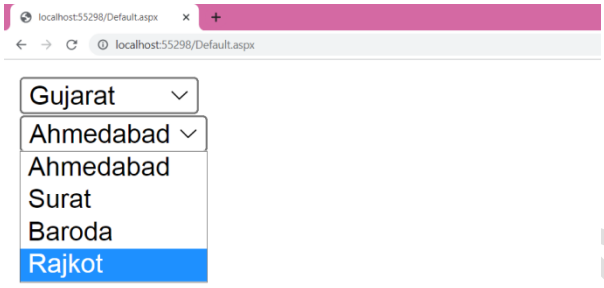
Step-7: Now click on where Clause and set following value.



Step-8: Now choose in Data source.



Output:

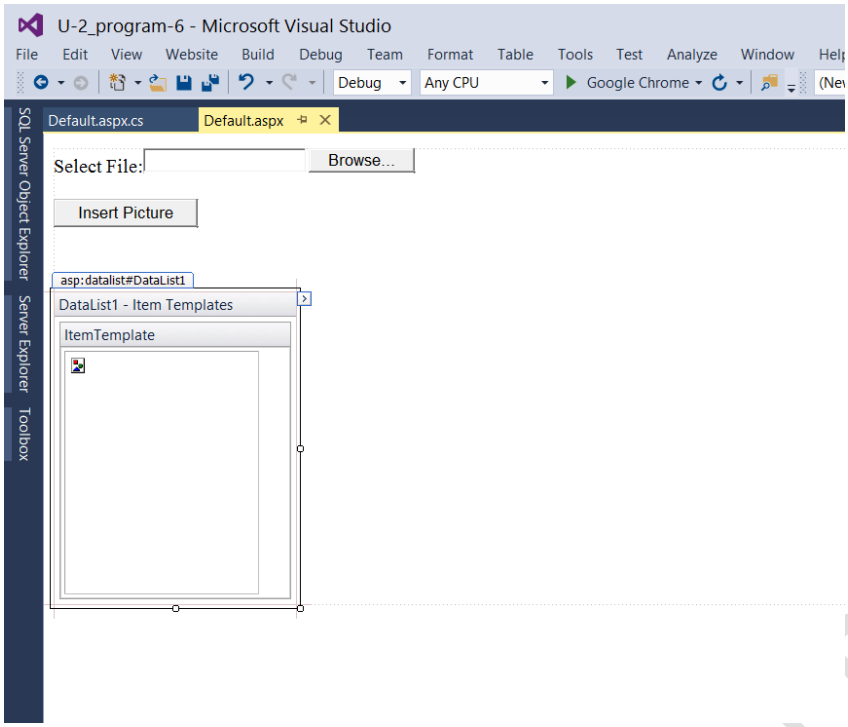


Program-6:

Write code to upload only image files (.bmp, .jpg, .gif) and less than 1 kb in folder "Image-Folder". Also display uploaded image files on the same web page using datalist control.

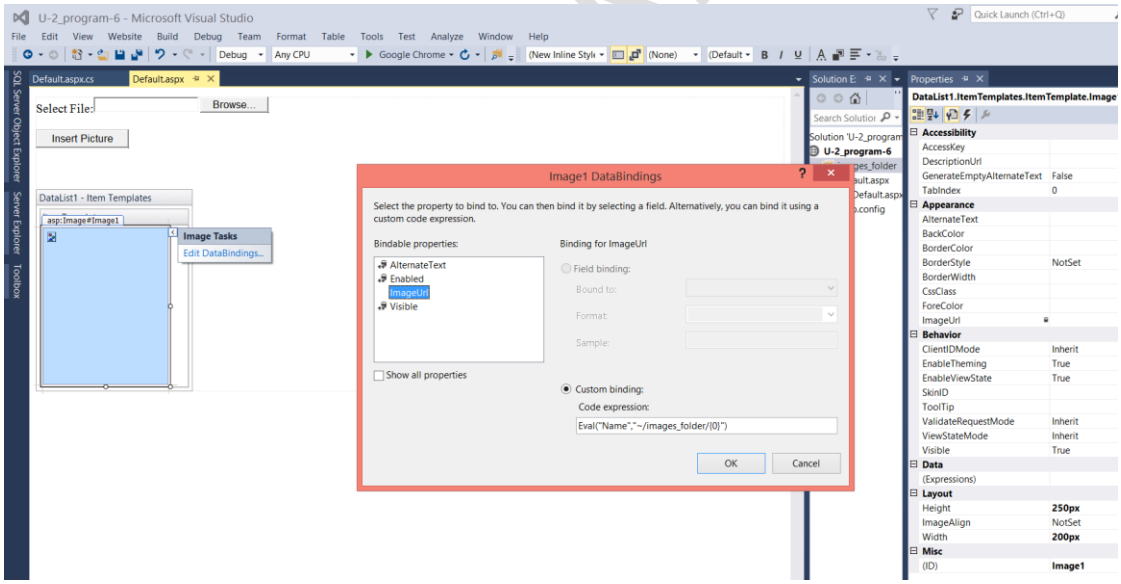
Step-1: Add Default.aspx and add a FileUpload Control, A button And A data List From Data Control.

Step-2: In Data List Control add a image control.

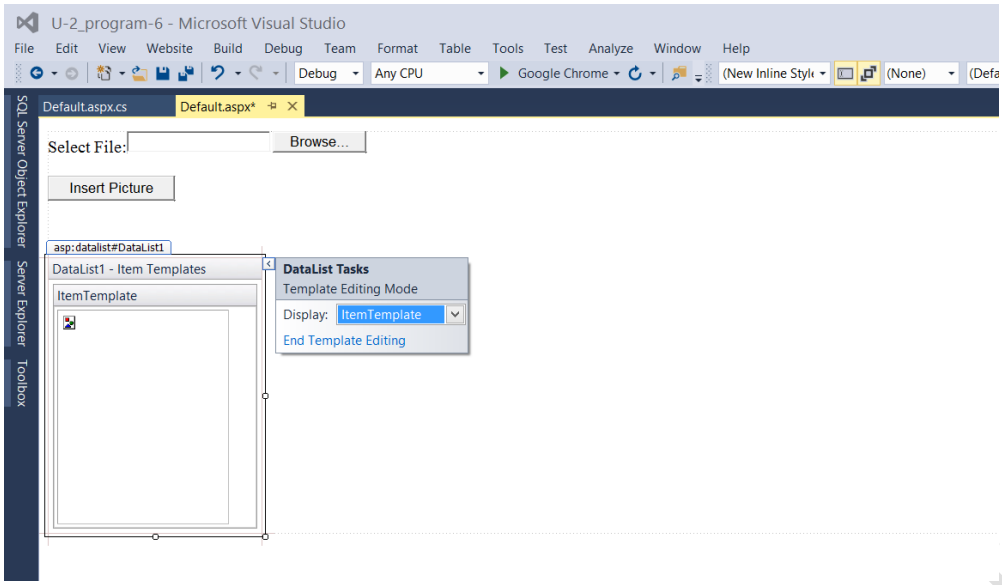


Step-3 : Solution Explorer -> Rigth click on Website -> add a folder-> images_folder

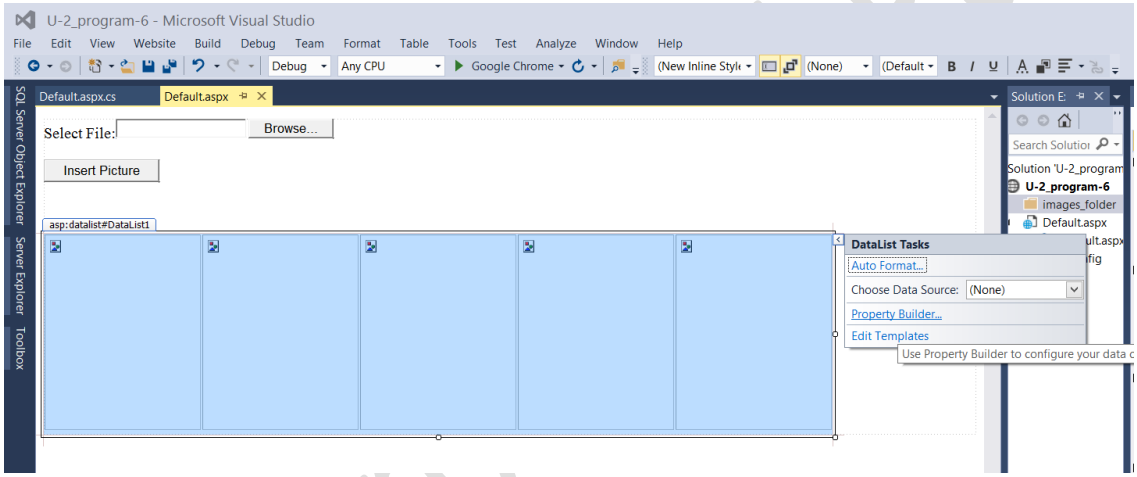
Step-4: Now image control edit Data binding and write code Eval("Name","~/images_folder/{0}") as shown below:



Step-5: Now Click on End template Editing of Datalist.



Step-6: Select Property Builder of Data list control Choose 5 columns.



Step-7: Write code as following:

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

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

    }
    protected void Page_PreRenderComplete(object sender, EventArgs e)
    {
        System.IO.DirectoryInfo di = new
System.IO.DirectoryInfo(Server.MapPath("~/images_folder"));
        DataList1.DataSource = di.GetFiles();
        DataList1.DataBind();
    }


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

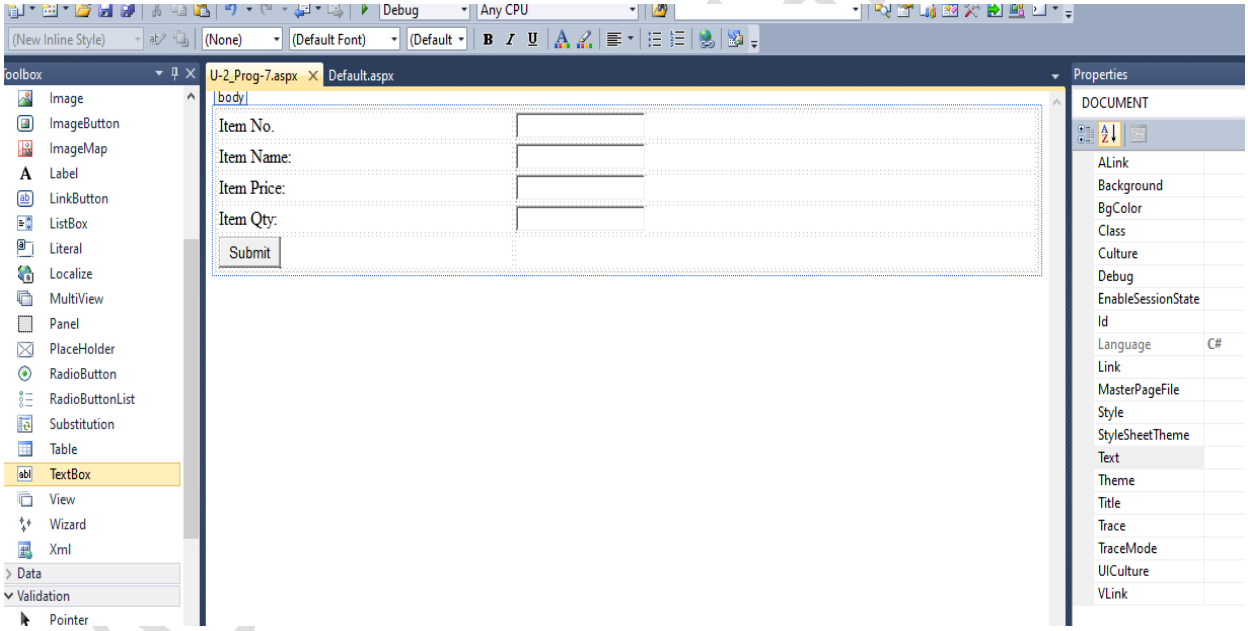
```
    {
        if(FileUpload1.HasFile)
        {
            if(FileUpload1.FileContent.Length < 10000)
            {
                FileUpload1.SaveAs(Server.MapPath("~/images_folder/" +
FileUpload1.FileName));
            }
        }
    }

}
```

Program-7:

Accept Item No, Item Name, Item Price, Item Quantity. Store information in cookie. Display stored information in next page.

Step-1: Add web form Default.aspx.

Step-2: Add textboxes and a button as shown below:

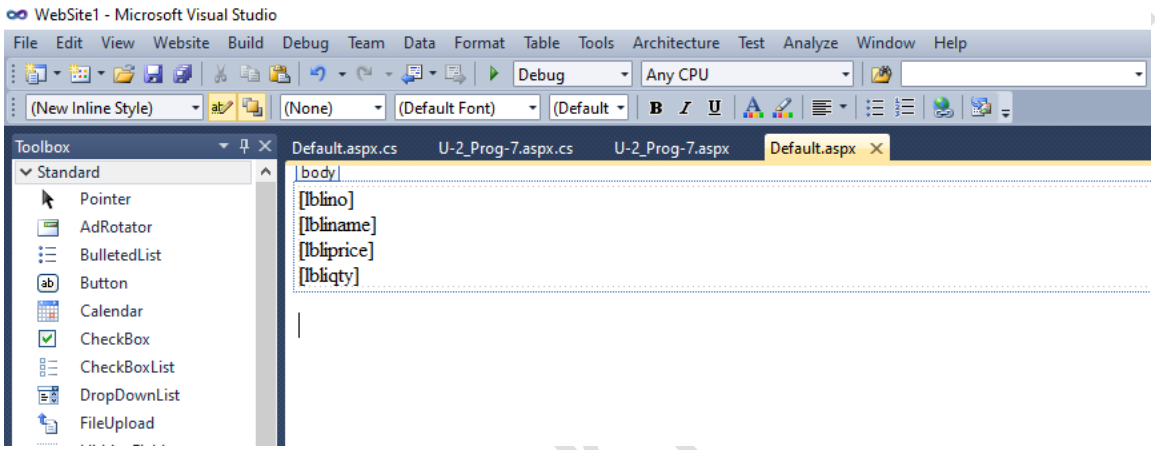


Step-3: Write Code on button_click event.

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

public partial class U_2_Prog_7 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }
```

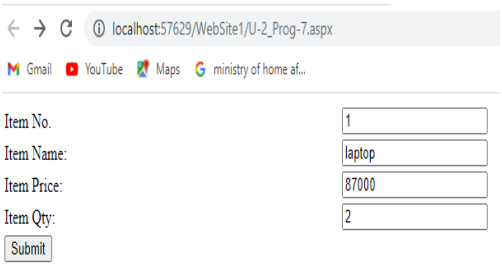
```
    protected void Button1_Click(object sender, EventArgs e)
    {
        HttpCookie ck = new HttpCookie("multivalueCookie");
        ck.Values.Add("I_NO", txtino.Text);
        ck.Values.Add("I_Name", txtiname.Text);
        ck.Values.Add("I_Price", txtip.Text);
        ck.Values.Add("I_QTY", txtiq.Text);
        Response.Cookies.Add(ck);
        Response.Redirect("~/Default.aspx");
    }
}
```

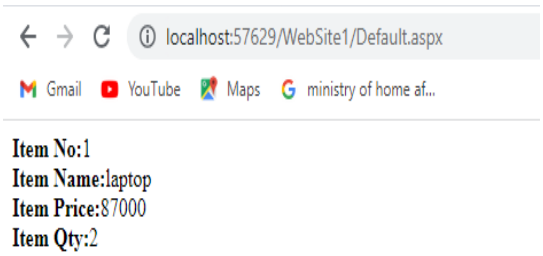
Step-4: create a another web form default2.aspx and add 4 labels and write code on page_load event.




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

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (Request.Cookies["multivalueCookie"] != null)
        {
            lblino.Text = "<b>Item
No:</b>"+Request.Cookies["multivalueCookie"]["I_NO"];
            lbliname.Text = "<b>Item Name:</b>" +
Request.Cookies["multivalueCookie"]["I_Name"];
            lbliprice.Text = "<b>Item Price:</b>" +
Request.Cookies["multivalueCookie"]["I_Price"];
            lbliqty.Text = "<b>Item Qty:</b>" +
Request.Cookies["multivalueCookie"]["I_QTY"];
        }
    }
}
```

OutPut:





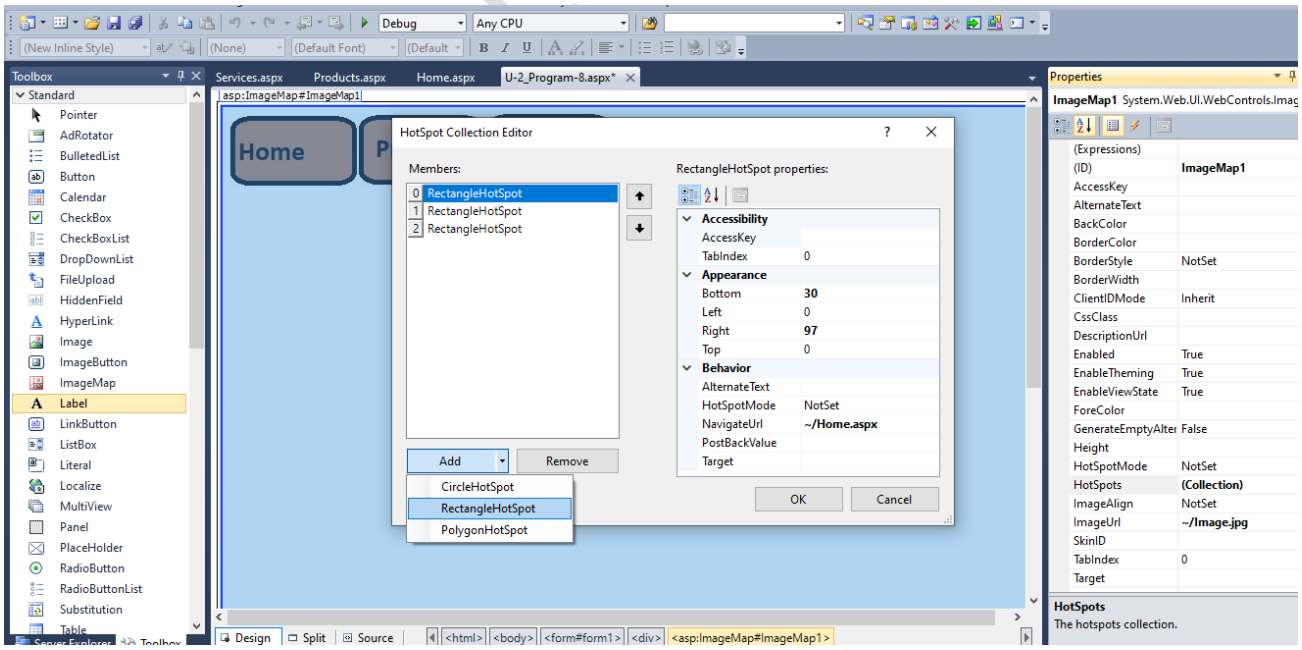
Program-8:

Take single image having 3 rectangle shapes horizontally having text "Home", "Product" and "Services" written in the boxes. When user clicks on the first rectangle Home.aspx page should be opened. Similarly, when user clicks on the Product rectangle the product.aspx and Service rectangle then service.aspx should be opened. Use ImageMap control.

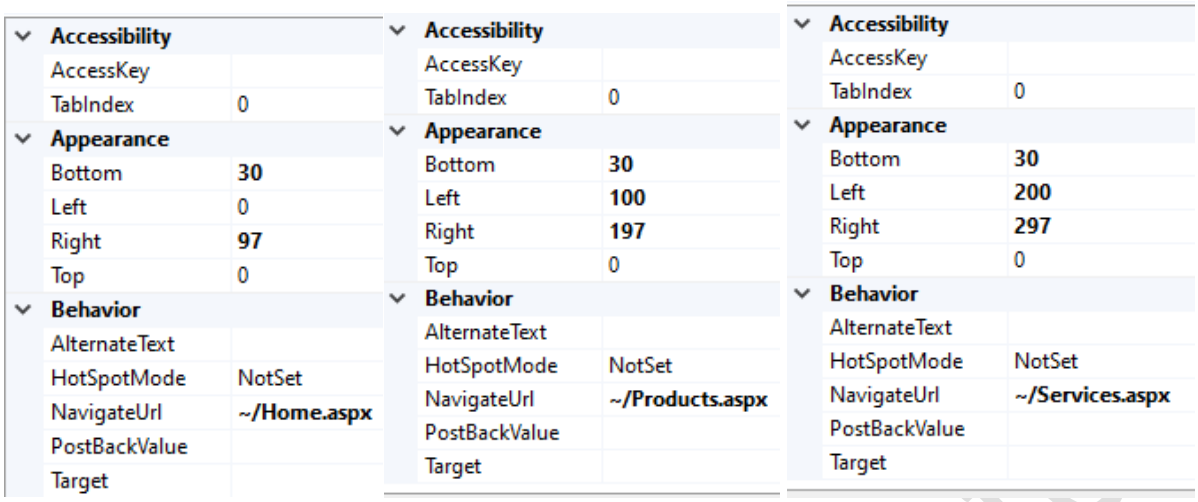
Step-1:Add Default. Aspx.

Step-2: Add Image Map control and set image url which image has 3 rectangles

Step-3: Now set the imageMap Hotspot collection as below:



Step-4: Now set the appearance of Rectangle hotspot simulteneously:



Accessibility	
AccessKey	
TabIndex	0
Appearance	
Bottom	**30**
Left	0
Right	**97**
Top	0
Behavior	
AlternateText	
HotSpotMode	NotSet
NavigateUrl	**~/Home.aspx**
PostBackValue	
Target	

Accessibility	
AccessKey	
TabIndex	0
Appearance	
Bottom	**30**
Left	**100**
Right	**197**
Top	0
Behavior	
AlternateText	
HotSpotMode	NotSet
NavigateUrl	**~/Products.aspx**
PostBackValue	
Target	

Accessibility	
AccessKey	
TabIndex	0
Appearance	
Bottom	**30**
Left	**200**
Right	**297**
Top	0
Behavior	
AlternateText	
HotSpotMode	NotSet
NavigateUrl	**~/Services.aspx**
PostBackValue	
Target	

As per the Image , coordinators are differents.

Program-9:

Using AdRotator control, display 3 images of car and when user click on it, open website of it. Load the advertisement details from the XML file as well as database.

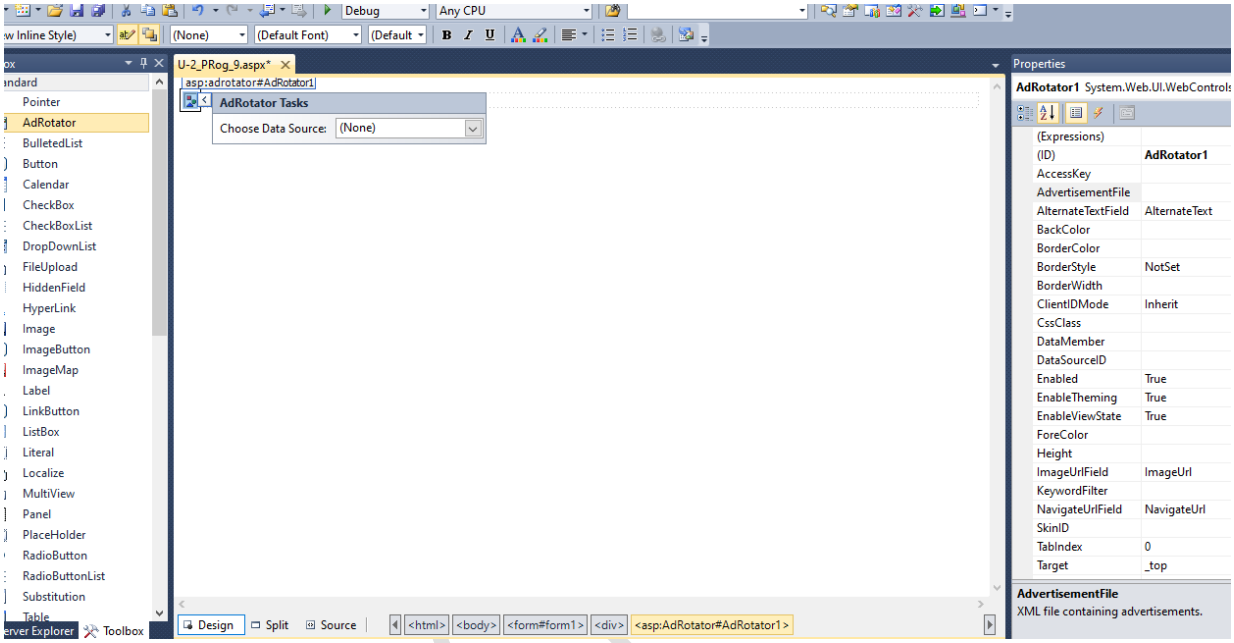
Step-1: Add Default.aspx

Step-2 : Solution Explorer -> Right click-> Add XML . write XMl code for advertise

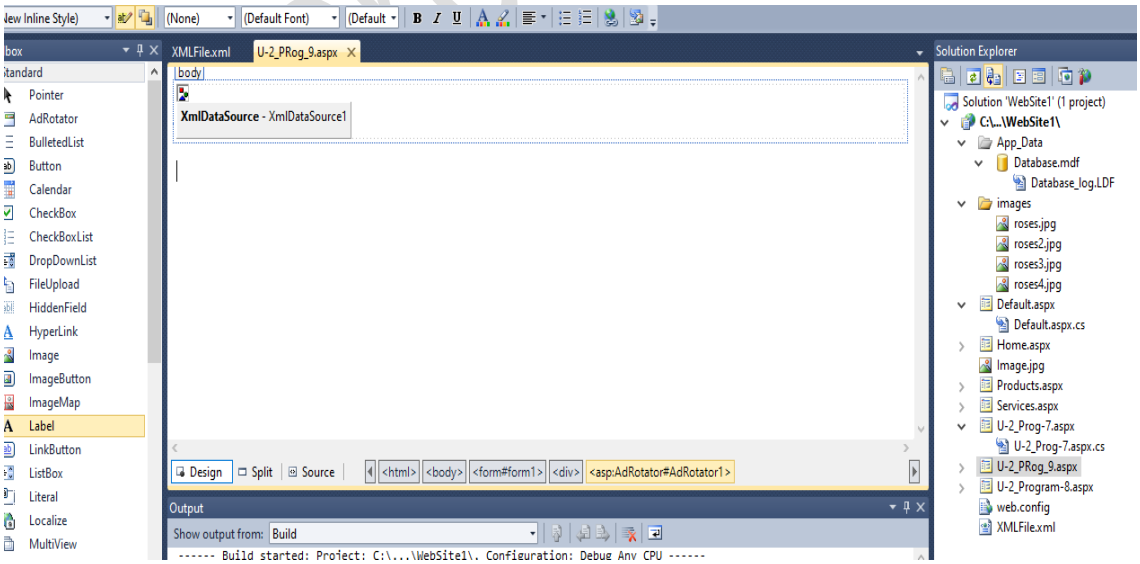
```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
   <Ad>
      <ImageUrl>rose1.jpg</ImageUrl>
      <NavigateUrl>http://www.1800flowers.com</NavigateUrl>
      <AlternateText>
         Order flowers, roses, gifts and more
      </AlternateText>
      <Impressions>20</Impressions>
      <Keyword>flowers</Keyword>
   </Ad>

   <Ad>
      <ImageUrl>rose2.jpg</ImageUrl>
      <NavigateUrl>http://www.babybouquets.com.au</NavigateUrl>
      <AlternateText>Order roses and flowers</AlternateText>
      <Impressions>20</Impressions>
      <Keyword>gifts</Keyword>
   </Ad>

   <Ad>
      <ImageUrl>rose3.jpg</ImageUrl>
      <NavigateUrl>http://www.flowers2moscow.com</NavigateUrl>
      <AlternateText>Send flowers to Russia</AlternateText>
      <Impressions>20</Impressions>
      <Keyword>russia</Keyword>
   </Ad>
```

```
    <Ad>
        <ImageUrl>rose4.jpg</ImageUrl>
        <NavigateUrl>http://www.ediblebloom.com</NavigateUrl>
        <AlternateText>Edible Blooms</AlternateText>
        <Impressions>20</Impressions>
        <Keyword>gifts</Keyword>
    </Ad>
</Advertisements>
```

Step-3: Add Adrotator control in default.aspx



Step-4: Now add Data sourse-> XML file or Set property Advertisement File -> XML file



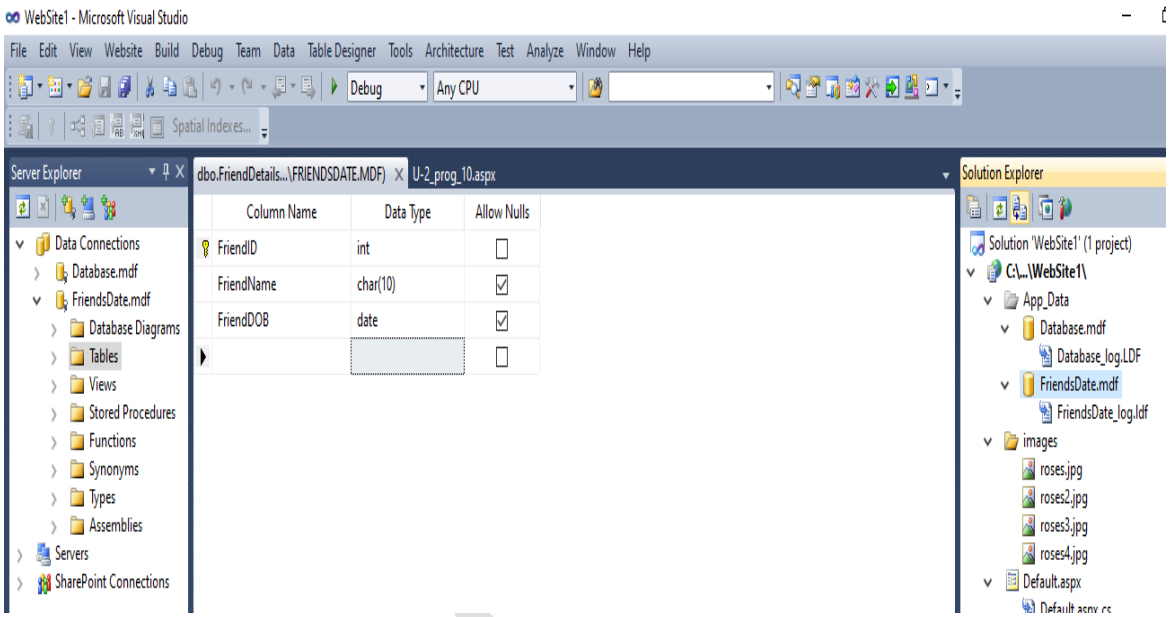
Program -10:

Using calendar control, allow user to select date from that. Display students whose birthday falls on that date (use database).

Step-1: Add Default.aspx page in website.

Step-2: Add Database : solution Explorer -> Right click-> add new Item-> Sql Server Database.

Step-3: Add table in Database



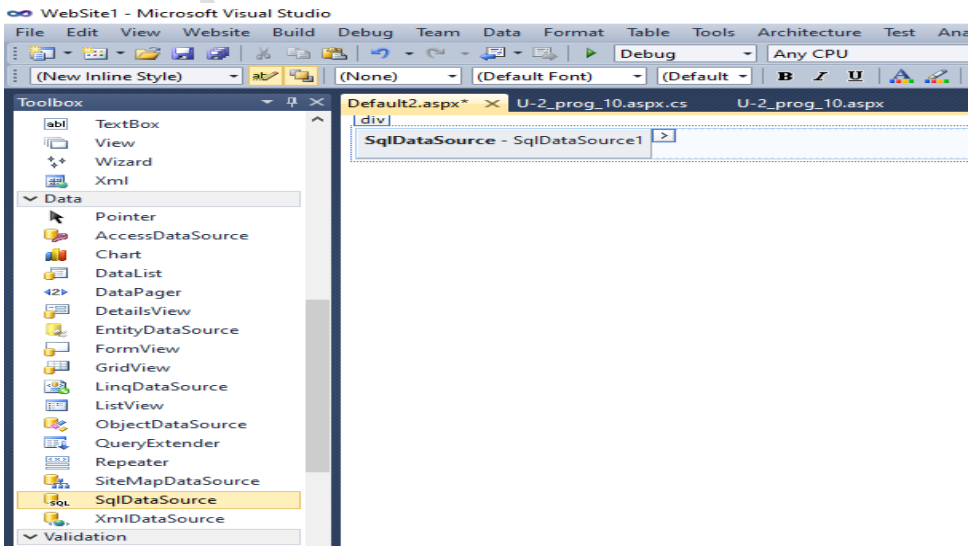
Step-4: Add calendar control in default.aspx

Step-5: Write code in Calender1_DayREnder Event.

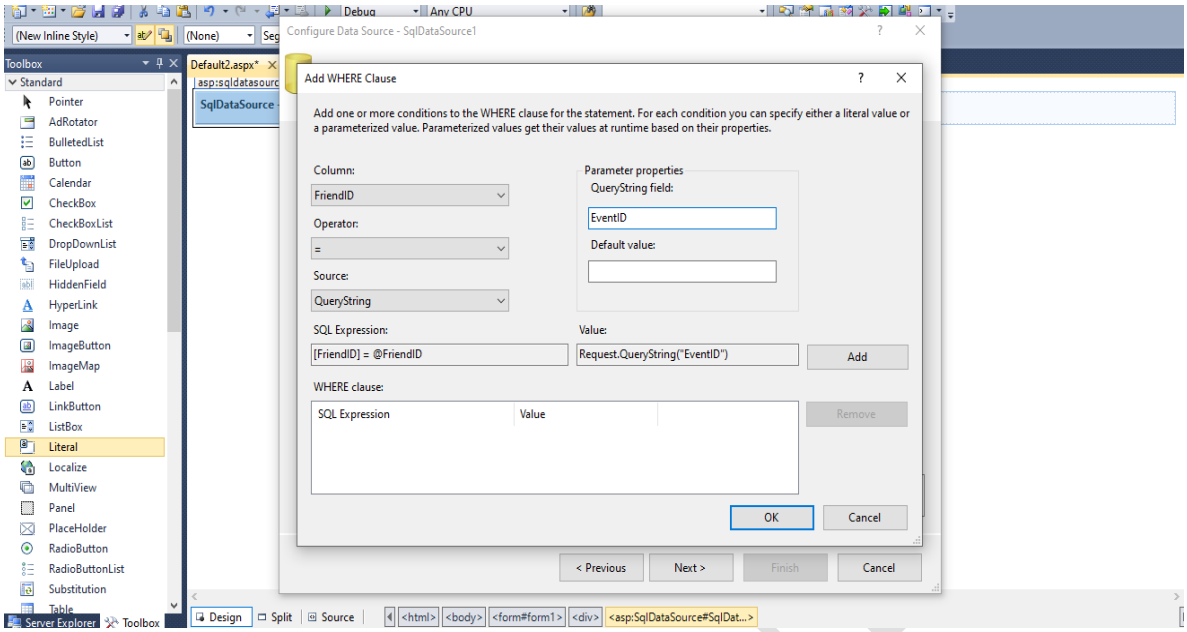
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
```

```
using System.Data.SqlClient;

public partial class U_2_prog_10 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
    {
        System.Data.SqlClient.SqlConnection con = new
System.Data.SqlClient.SqlConnection();
        con.ConnectionString = "Data
Source=.\\SQLEXPRESS;AttachDbFilename=C:\\Users\\DHAVAL\\Documents\\Visual Studio
2010\\WebSites\\WebSite1\\App_Data\\FriendsDate.mdf;Integrated Security=True;User
Instance=True";
        con.Open();
        System.Data.SqlClient.SqlCommand cmd = new System.Data.SqlClient.SqlCommand();
        cmd.Connection = con;
        cmd.CommandText = "select * from FriendDetails";
        System.Data.SqlClient.SqlDataReader dr = cmd.ExecuteReader();
        while (dr.Read())
        {
            DateTime dt = (DateTime)dr.GetValue(2);
            DateTime dt1 = e.Day.Date;
            if (dt.Month == dt1.Month)
            {
                if (Convert.ToString(dt.Day) == e.Day.DayNumberText)
                {
                    int n = (int)dr.GetValue(0);
                    LiteralControl lc = new LiteralControl("<br><a
href=~/Default2.aspx?EvetID=" +n +">Birthday</a>");
                    e.Cell.Controls.Add(lc);
                }
            }
        }
    }
}
```

Step-6: Now add Default2.aspx and Add Toolbox -> Data -> SqlDataSource control.



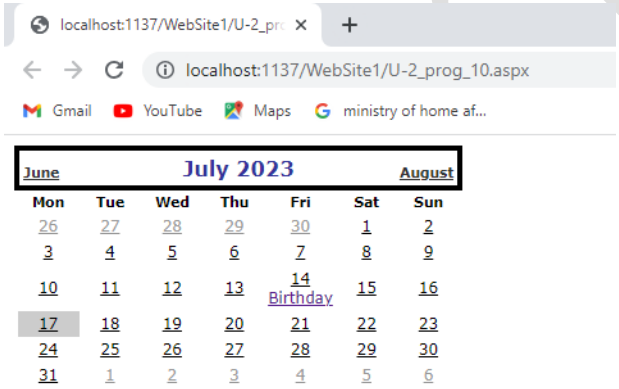
Step-7: Configure Data source and Select as below:

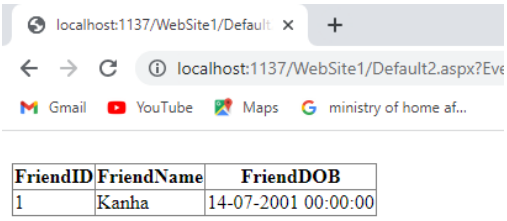


Step-8: add gridview control from data and add add Sql data source in it.

Step-9: now run Default.aspx page.

Output:





Click on Birthday: