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1. CreateaXML document for student database and apply the style sheet effects and display on webpage

```
Student.xml:
```

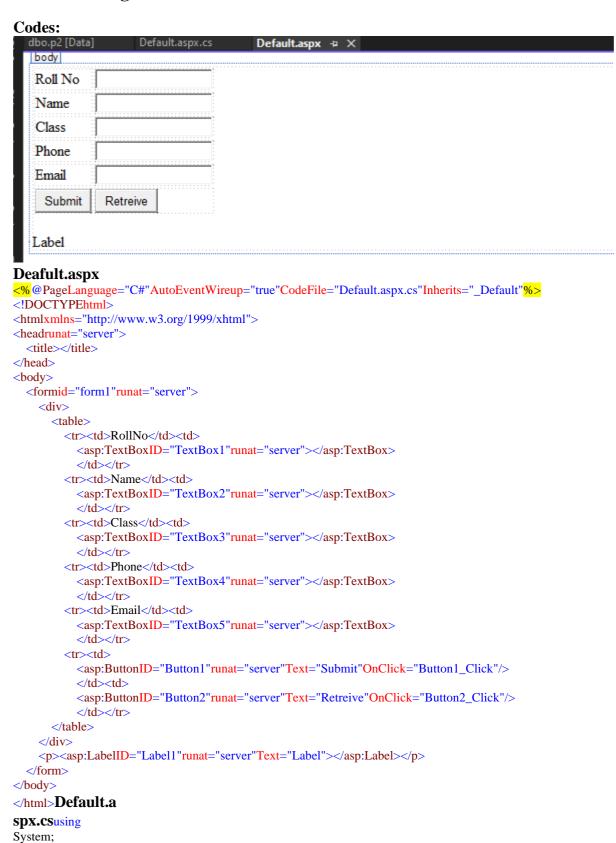
```
<?xmlversion="1.0"encoding="UTF-8"?>
<?xml-stylesheettype="text/css"href="StyleSheet.css"?>
<students>
        <heading>Studentdatabase</heading>
        <student>
                <id>RollNo:00009</id>
                <name>Name:SatyamGupta</name>
                <Class>TY-Bsc</Class>
                <division>A</division>
                <Subject>InformationTechnology</Subject>
                <Phone>8433508332</Phone>
                <Address>JuhuKoliwada,HbGawdeMarg,SantacruzWestMum-49</Address>
        </student>
        <student>
                <id>RollNo:00015</id>
                <name>Name:NumanKhan</name>
                <Class>TY-Bsc</Class>
                <division>A</division>
                <Subject>InformationTechnology</Subject>
                <Phone>9667845120</Phone>
                <Address>KharDanda,KharWest,Mum-52</Address>
        </student>
        <student>
                <id>RollNo:00025</id>
                <name>Name:SalmanKhan</name>
                <Class>TY-Bsc</Class>
                <division>A</division>
                <Subject>ComputerScience</Subject>
                <Phone>8433508332</Phone>
                <Address>3, Galaxy Apartments, BJ Road Band Stand, Bandra West, Mumbai, Maharashtra –
400050,India</Address>
        </student>
        <student>
                <id>RollNo:00901</id>
                <name>Name:SangamYadav</name>
                <Class>SY-Bsc</Class>
                <division>A</division>
                <Subject>InformationTechnology</Subject>
                <Phone>841623832</Phone>
                <Address>JuhuKoliwada,HbGawdeMarg,SantacruzWestMum-49</Address>
        </student>
        <student>
                <id>RollNo:001450</id>
                <name>Name:RajuRastogi</name>
                <Class>TY-Bsc</Class>
                <division>A</division>
                <Subject>InformationTechnology</Subject>
                <Phone>8433508332</Phone>
                <Address>MumbaiMaharashtra</Address></student></students>
```

StyleSheet.css

```
students {
font-size:80%;
```

```
margin:0.5em;
  font-family:
  Verdana;display:bloc
  k;
}
student{display:
  block;
  border: 1px solid
  silver;margin:
  0.5em;padding:0.5em;
  background-color:whitesmoke;
heading{display:
  block;
  font-weight: bolder;text-align:
  center;font-
  size:30px;
  background-color:
  green;color:white;
id {
  font-family: 'Cascadia
  Code';font-size:30px;
  font-weight:bold;
name, Class, division, Subject, Phone, Address
  {display:block
}
```

2. Create a simple web page containing the student details (Roll No, Name, Class, Phone, Email). Write a program to store the data in the database and retrieve it using Data reader in tabular format.



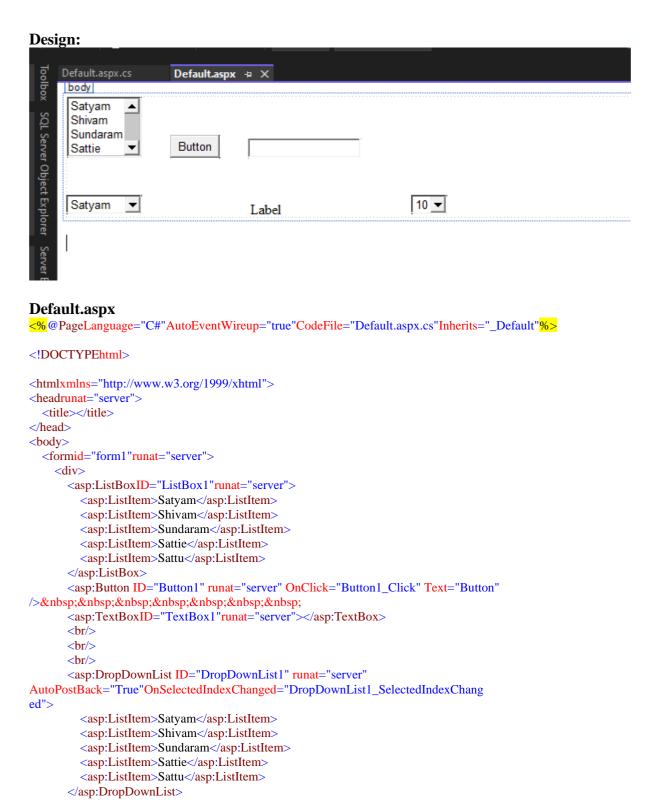
usingSystem.Collections.Generic;

```
using
System.Linq;using
System.Web;usingSyst
em.Web.UI;
using
System.Web.UI.WebControls;using
System.Data.SqlClient;
usingSystem.Linq.Expressions;
publicpartialclass_Default:System.Web.UI.Page
  SqlConnectioncon
=newSqlConnection("DataSource=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=C:\\Users\\Admin\\OneDrive\\Documents\\"+
       "Practical2.mdf;Integrated Security=True;Connect
  Timeout=30");protected voidPage_Load(objectsender, EventArgse)
  protectedvoidButton1_Click(objectsender,EventArgse)
    try{
       stringInsertQuery= "insertintop2values("+TextBox1.Text+",""+ TextBox2.Text+"',""+TextBox3.Text
+ "'," + TextBox4.Text + "'," + TextBox5.Text + "')
       "; SqlCommand cmd = \underbrace{new}SqlCommand (InsertQuery,
       con);con.Open();
       cmd.ExecuteNonQuery();//UseforinsertupdateanddeleteOnly(*Required)
    catch(ExceptionE)
       Response.Write(E.Message);
    finally
       if(con.State==System.Data.ConnectionState.Closed)
       }
       else
         con.Close();
  }
  protectedvoidButton2_Click(objectsender,EventArgse)
    try
       stringSELECTQuery="Select*fromp2";
       SqlCommandcmd=newSqlCommand(SELECTQuery,con);con.Open()
       SqlDataReadersdr=cmd.ExecuteReader();strin
       gtbl="";
       if(sdr.HasRows)
         while(sdr.Read())
            tbl + = "<\!\!tr\!\!> <\!\!td\!\!> "+sdr[0] + "<\!\!/td\!\!> <\!\!td\!\!> "+sdr[1] + "<\!\!/td\!\!> <\!\!td\!\!> "+sdr[2] + "<\!\!/td\!\!> <\!\!td\!\!> "+sdr[4]
+"";
         }
       tbl+="";
```

```
Label1.Text=tbl;

} catch(ExceptionE) {
    Response.Write(E.Message);
    } finally {
    if(con.State==System.Data.ConnectionState.Closed) {
      } else {
        con.Close();
     }
    }
}
```

- ${\bf 3.}\ \ Create a simple we bpage with various sever controls to demonstrate setting and use of their properties. (Example: AutoPostBack)$
- 1. Onclick of a button control display the selected items from the listbox in atextbox. Also in the same webpage display the name of the selected item from theDropDownList1 in a label. Also change the font size of the same label according to the font size selected from the Dropdownlist2.



```
<asp:LabelID="Label1"runat="server"Text="Label"></asp:Label>
                    <asp:DropDownList ID="DropDownList2" runat="server"</pre>
AutoPostBack = "True" On SelectedIndex Changed = "DropDownList2\_SelectedIndex Changed" - "DropDownList2\_SelectedIndex Change
                           <asp:ListItem>10</asp:ListItem>
                           <asp:ListItem>20</asp:ListItem>
                           <asp:ListItem>30</asp:ListItem>
                           <asp:ListItem>40</asp:ListItem>
                           <asp:ListItem>45</asp:ListItem>
                    </asp:DropDownList>
              </div>
       </form>
</body>
</html>Default
.aspx.cs
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclass_Default:System.Web.UI.Page
       protectedvoidPage_Load(objectsender,EventArgse)
       protectedvoidButton1_Click(objectsender,EventArgse)
              TextBox1.Text=ListBox1.SelectedValue.ToString();
       protected void Drop Down List 1\_Selected Index Changed (objects ender, Event Argse)
              Label1.Text=DropDownList1.SelectedValue.ToString();
       protected void Drop Down List 2\_Selected Index Changed (objects ender, Event Argse)
              Label 1. Font. Size = Convert. To Int 32 (Drop Down List 2. Selected Value); \\
```

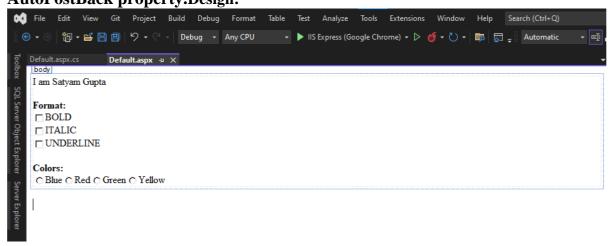
2. playImagecontrolforphoto.

Design:



```
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <styletype="text/css">
    . auto-style 1 \{
      text-align:center;
  </style>
</head>
<body>
  <formid="form1"runat="server">
    <divclass="auto-style1">
      <asp:Image ID="Image1" runat="server" Height="282px" ImageUrl="~/IMG-20220324-
WA0008.jpg"Width="234px"/>
      <br/>
       <strong>ImageControl</strong></div>
  </form>
</body>
</html>
```

3. CheckBoxesprovidesspecialformatting(viz.underline, bold,italic)andRadio Buttons provides color for label. 4. Use of AutoPostBack property.Design:



Defualt.aspx

```
<% @ Page Language="C#" MaintainScrollPositionOnPostback ="true"</p>
AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
    <asp:LabelID="Label1"runat="server"Text="IamSatyamGupta"></asp:Label>
    <br/>
    <br/>
    <strong>Format:</strong><br/>
    <asp:CheckBox ID="CheckBox1" runat="server"
AutoPostBack="True"OnCheckedChanged="CheckBox1_CheckedChanged"
Text="BOLD"/>
    <asp:CheckBox ID="CheckBox3" runat="server"
AutoPostBack = "True" On Checked Changed = "CheckBox3\_Checked Changed"
Text="ITALIC"/>
    <asp:CheckBox ID="CheckBox2" runat="server"
```

```
AutoPostBack="True"OnCheckedChanged="CheckBox2 CheckedChanged"Text="UNDERLINE"/>
    <br/>
    <br/>
    Colors:</strong>
    <br />
    <asp:RadioButton ID="RadioButton1" runat="server" AutoPostBack="True"
GroupName="Color"OnCheckedChanged="RadioButton1 CheckedChanged"Text="Blue"/>
    <asp:RadioButton ID="RadioButton2" runat="server" AutoPostBack="True"
GroupName="Color"OnCheckedChanged="RadioButton2" CheckedChanged"Text="Red"/>
    <asp:RadioButton ID="RadioButton3" runat="server" AutoPostBack="True"
GroupName="Color"OnCheckedChanged="RadioButton3_CheckedChanged"Text="Green"/>
    <asp:RadioButton ID="RadioButton4" runat="server" AutoPostBack="True"</p>
GroupName="Color"OnCheckedChanged="RadioButton4_CheckedChanged"Text="Yellow"/>
  </form>
</body>
</html>
Default.aspx.cs
using System;
Using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclass_Default:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
  protected void Check Box 1\_Checked Changed (objects ender, Event Argse)
    if(CheckBox1.Checked)
      Label1.Font.Bold=true;
    else
      Label1.Font.Bold=false;
  protected void Check Box 3\_Checked Changed (objects ender, Event Argse)\\
    if(CheckBox3.Checked)
      Label1.Font.Italic=true;
    }
    else
      Label1.Font.Italic=false;
  protectedvoidCheckBox2_CheckedChanged(objectsender,EventArgse)
    if(CheckBox2.Checked)
      Label1.Font.Underline=true;
    else
    {Label1.Font.Underline= false;}
  protectedvoidRadioButton1_CheckedChanged(objectsender,EventArgse)
    Label1.ForeColor=System.Drawing.Color.Blue;
```

```
protectedvoidRadioButton2_CheckedChanged(objectsender,EventArgse)
{
    Label1.ForeColor=System.Drawing.Color.Red;
}
protectedvoidRadioButton3_CheckedChanged(objectsender,EventArgse)
{
    Label1.ForeColor=System.Drawing.Color.Green;
}
protectedvoidRadioButton4_CheckedChanged(objectsender,EventArgse)
{
    Label1.ForeColor=System.Drawing.Color.Yellow;
}
```

4. Createasimplewebpagetocountthenumberoftimesthecurrentwebpage issubmitted to the server on click event of a Button.

```
Design:
 Default.aspx.cs
                       Default.aspx + ×
  body
   Total Counts: Label
    Button
Default.aspx
<%@PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"
%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
    <div>
     TotalCounts:  
      <asp:LabelID="Label1"runat="server"Text="Label"></asp:Label>
      <br/>
      <br/>
      <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click"Text="Button"/>
  </form>
</body>
</html>Default.a
Spx.csusing
System;
publicpartialclass_Default:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
  protectedvoidButton1_Click(objectsender,EventArgse)
    //In thismethod onlythecountwillbedifferentin differenttabsofthesamewebpage
    //ViewState["a"]=Convert.ToInt32(ViewState["a"])+1;
   //Label1.Text=ViewState["a"].ToString();
    Application["a"] = Convert.ToInt32(Application["a"]) +
    1;Label1.Text=Application["a"].ToString();
  }}
```

5. Createsimpleapplicationtoperformfollowingoperations

- i. FindingfactorialValue
- ii. MoneyConversion
- iii. Cubeofgivennumber
- iv. GenerateFibonacciseries

```
Codes:
```

```
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <styletype="text/css">
    .auto-style1{
      text-align:center;
    .auto-style2
      {color:#0099CC
  </style>
</head>
<body>
  <formid="form1"runat="server">
    <divclass="auto-style1">
      <h1><spanclass="auto-style2"><strong>CodeBySatyam09</strong></span></h1>
      <asp:TextBoxID="TextBox1"runat="server"Width="164px"></asp:TextBox>
      <asp:DropDownList ID="DropDownList1" runat="server"
AutoPostBack="True"OnSelectedIndexChanged="DropDownList1_SelectedIndexChanged"
ed">
         <asp:ListItemValue="1">Factorial</asp:ListItem>
         <asp:ListItemValue="2">RStoUSD</asp:ListItem>
         <asp:ListItemValue="3">Cube</asp:ListItem>
         <asp:ListItemValue="4">Fibonacci</asp:ListItem>
      </asp:DropDownList>
      <br/>
      <br/>
      <br/>
      <h2>
         <asp:LabelID="Label1"runat="server"Text="Result"></asp:Label>
    </div>
  </form>
</body>
</html>
C# Code:
usingSystem;
System.Collections.Generic;using
System.Drawing;
using
System.Linq;using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclass_Default:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
```

```
}
protected void Drop Down List 1\_Selected Index Changed (objects ender, Event Argse)
  if(DropDownList1.SelectedValue=="1")
    Label1.Text=Factorail(Convert.ToInt32(TextBox1.Text));
  elseif(DropDownList1.SelectedValue=="2")
    Label1.Text=Money(Convert.ToDouble(TextBox1.Text));
  elseif(DropDownList1.SelectedValue=="3")
    Label1.Text=Cube(Convert.ToInt32(TextBox1.Text));
  elseif(DropDownList1.SelectedValue=="4")
    Label1.Text=Fibonacci(Convert.ToInt32(TextBox1.Text));
publicstringFactorail(intnum)
  intfact=1;
  for(inti= 1;i< num;i++)</pre>
    fact*=i;
  returnfact.ToString();
publicstringMoney(doublen)
  double d = n /
  82.31; returnd. To Stri
  ng();
publicstringCube(doublen)
  return(n*n*n).ToString();
publicstringFibonacci(intn)
  int n1 = 0, n2 =
  1;intn3;
  stringfs ="";
  fs=n1 +""+n2+"";
  for(inti=2;i<n;++i)</pre>
    n3 = n1 +
    n2; fs+=n3+"";
    n1 = n2;
    n2 = n3;
  }
  returnfs;
```

- ${\bf 6.\ Demonstrate} the use of Calendar control toper form following operations.$
- a) Displaymessagesinacalendarcontrol
- b) Displayvacationina calendar control
- c) Selecteddayinacalendarcontrolusingstyle
- d) Differencebetweentwocalendardates

Codes:

```
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
    <title></title>
    <styletype="text/css">
         .auto-style1{
            text-align:center;
         .auto-style2{
            text-align:center;
         }
        .auto-style3
            {color:#339933;
            text-decoration:underline;
    </style>
</head>
    <formid="form1"runat="server">
         <divclass="auto-style2">
             <asp:Calendar ID="Calendar1" runat="server" BackColor="White" BorderColor="Black" Font-</p>
Names="Verdana" Font-Size="9pt" ForeColor="Black" Height="250px"
OnDayRender="Calendar1_DayRender"OnSelectionChanged="Calendar1_SelectionChanged" Width="330px"
BorderStyle="Solid" CellSpacing="1"CssClass="auto-style1"NextPrevFormat="ShortMonth">
                  <DayHeaderStyleFont-Bold="True"Height="8pt"Font-Size="8pt"ForeColor="#333333"/>
                 <DayStyleBackColor="#CCCCCC"/>
                 <NextPrevStyleFont-Size="8pt"ForeColor="White"Font-Bold="True"/>
                 <OtherMonthDayStyleForeColor="#999999"/>
                 <SelectedDayStyleBackColor="#333399"ForeColor="White"/>
                  <TitleStyle BackColor="#333399" Font-Bold="True" Font-Size="12pt"
ForeColor="White"BorderStyle="Solid"Height="12pt"/>
                  <TodayDayStyleBackColor="#999999"ForeColor="White"/>
             </asp:Calendar>
             <asp:Calendar ID="Calendar2" runat="server" BackColor="White"
BorderColor="White"BorderWidth="1px" Font-Names="Verdana" Font-Size="9pt" ForeColor="Black"
Height="190px" Width="350px"NextPrevFormat="FullMonth">
                 <DayHeaderStyleFont-Bold="True"Font-Size="8pt"/>
                 <NextPrevStyleFont-Size="8pt"ForeColor="#333333"Font-Bold="True"VerticalAlign="Bottom"/>
                 <OtherMonthDayStyleForeColor="#999999"/>
                 <SelectedDayStyleBackColor="#333399"ForeColor="White"/>
                 <TitleStyle BackColor="White" BorderColor="Black" BorderWidth="4px" Font-Bold="True" Font-B
Size="12pt"ForeColor="#333399"/>
                  <TodayDayStyleBackColor="#CCCCCC"/>
             </asp:Calendar>
             <asp:Label ID="Label1" runat="server"
         Text="Label"></asp:Label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp
             <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click"Text="Button"/>
             <strong>
             <br/>
<br/>
drclass="auto-style3"/>
             <h1><spanclass="auto-style3">Satyam09</span></h1>
             <br/>
             <br/>
```

```
 
       </div>
  </form>
</body>
</html>
C# Code:
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclass_Default:System.Web.UI.Page
  protected void Page\_Load (objects ender, Event Argse)
  protectedvoidCalendar1_DayRender(objectsender,DayRenderEventArgse)
    if (e.Day.Date.Year == 2022 \& \&e.Day.Date.Month == 10 \& \&e.Day.Date.Day == 5)\\
      Label 11 = new
      Label();l1.Text="<br>ga
      npati";e.Cell.Controls.Ad
      d(11);
    if(e.Day.Date.Year==2022&&e.Day.Date.Month==10&& e.Day.Date.Day==15)
      Labell1=newLabel();11.Text="
      <br/>br>TYITPrelims";e.Cell.Cont
      rols.Add(11);
    }
  }
  protectedvoidCalendar1_SelectionChanged(objectsender,EventArgse)
    Calendar1.SelectedDayStyle.BackColor = System.Drawing.Color.Red;
    Calendar1.SelectedDayStyle.ForeColor=System.Drawing.Color.Yellow;
  protectedvoidButton1_Click(objectsender,EventArgse)
    TimeSpan\ ts = Calendar1.SelectedDate -
    Calendar2.SelectedDate;Label1.Text=ts.TotalDays.ToString();
}
```

footernamed user control having copyright reserved (ex. "©company name") and use it in a webpage.

footer.ascx

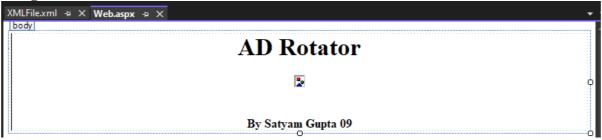
</html>

ControlLanguage="C#"AutoEventWireup="true"CodeFile="Footer.ascx.cs"Inherits="Footer"%>
div style="font-family: 'Arial Black'; font-size: xx-large; font-weight: 200; font-style: normal; font-variant: small-caps; text-transform: uppercase; color: #FF0000; line-height: inherit; vertical-align: middle; text-align: justify; text-indent: inherit; white-space: pre; word-spacing: inherit; letter-spacing: inherit; background-color: #00FFFF; background-image: inherit; background-repeat: repeat-x; background-attachment: scroll; background-position: centercenter; border: thick double #008000; padding: inherit; margin: inherit; position: fixed; z-index: inherit; width: inherit; height: inherit; visibility: visible; display: table-column; float: none; clear: both; cursor: move; table-layout: fixed">@CopyrightSatyam.com

```
Default.aspx:
<@PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits=" Default"%>
<%@Registersrc="Footer.ascx"tagname="Footer"tagprefix="uc1"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <styletype="text/css">
    .auto-style1{
      text-align:
      center;color:#336
      6FF;
    }
  </style>
</head>
<body>
  <formid="form1"runat="server">
    <divclass="auto-style1">
      <h1><strong>SatyamGupta</strong></h1>
    <uc1:FooterID="Footer1"runat="server"/>
  </form>
</body>
```

8. Create Web Form to demonstrate use of Adrotator Control with five advertisements. Also demonstrate how keyword filter works.

Design:



```
Code:
<body>
  <formid="form1"runat="server">
    <divclass="auto-style1">
      <h1style="text-align:center">ADRotator</h1>
      <asp:AdRotatorAdvertisementFile="~/XMLFile.xml"ID="AdRotator1"runat="server"Target="_blank"/>
        <br/>
        <br/>
        BySatyamGupta09</h4>
    </div>
  </form>
</body>
Web.xml
<?xmlversion="1.0"encoding="utf-8"?>
<Advertisements>
        <Ad>
                <ImageUrl>~/Pic/TMKOC.jpg</ImageUrl>
                <Height>300px</Height>
                <Width>550px</Width>
                <NavigateUrl>https://www.youtube.com/c/TaarakMehtaKaOoltahChashmah</NavigateUrl>
                <AlternateText>
                        TarakMehta kaOolta Chashma
                </AlternateText>
                <Impressions>20</Impressions>
                <Keyword>FamilyShow</Keyword>
        </Ad>
        <Ad>
                <ImageUrl>~/Pic/the-kapil-sharma-show.jpg</ImageUrl>
                <Height>300px</Height>
                <Width>550px</Width>
```

<NavigateUrl>https://www.youtube.com/c/KapilSharmaK9</NavigateUrl>

<AlternateText>Watchtheshow</AlternateText>

<Impressions>15</Impressions> <Keyword>ComedyShow</Keyword>

</Ad>

</Advertisements>

9. Create XML file employees with nodes (eid, ename, edept, salary). Bindtheeidandenametoadropdownlistandtheenameshouldbein theascendingorder.

```
SourceCode:
<%@PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"
%>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <styletype="text/css">
     .auto-style1{
       text-align:center;
  </style>
</head>
<body>
  <formid="form1"runat="server">
     <divclass="auto-style1">
       <asp:DropDownListID="DropDownList1"runat="server">
       </asp:DropDownList>
       <br/>
       <br/>
       RollNo:09
     </div>
  </form>
</body>
</html>
CsCode:
usingSystem;
using
System.Collections.Generic;using
System.Ling;
using
System.Web;usingSyst
em.Web.UI;
System.Web.UI.WebControls;using
System.Data;
publicpartialclass_Default:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
     DataSet ds = new
     DataSet(); ds.ReadXml("C:\Users\Admin\source\pos\P9\P9\XMLF)
     ile.xml");ds.Tables[0].DefaultView.Sort = "ename";// For Ascending
     OrderDropDownList1.DataSource=ds.Tables[0];DropDownList1.DataT
     extField = "ename";DropDownList1.DataValueField =
     "eid";DropDownList1.DataBind();
  }
    <input type="hidden" name="__VIEWSTATEGENERATOR" id="__VIEWSTATEGENERATOR" value="CA0B0334" />
<input type="hidden" name="__EVENTVALIDATION" id="__EVENTVALIDATION" value="j/f8Ms26o8sTqg6Mn5aYsVf</pre>
 </div>
         <div class="auto-style1">
             <select name="DropDownList1" id="DropDownList1">
    <option value="3">ABS</option>
<option value="4">ASAD</option>
     <option value="1">Satyam Gupta</option>
     <option value="2">XYZ</option>
```

10. Createsimplewebpagethattakesanumberasinputanddisplayitfourtimes in a row (separated by blank spaces), and then four times in the nextrow, with noseparation. Like-

```
Enteradigit:22Ex
pectedOutput:
2222 22 22
2222222
2222 22 22
2222222
Codes:
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default2.aspx.cs"Inherits="Default2"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
      Enteradigit:            
      <asp:TextBox ID="TextBox1" runat="server"
AutoPostBack="True"OnTextChanged="TextBox1_TextChanged"></asp:T
extBox>
      <br/>
      <br/>
      <br/>
      <asp:LabelID="Label1"runat="server"Text="Label"></asp:Label>
    </div>
  </form>
    @SatyamGupta09
</body>
</html>
CScodes:
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclassDefault2:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
  }
  protected void TextBox 1\_TextChanged (objects ender, EventArgse)
    Label1.Text="";
```

intnumber=Convert.ToInt32(TextBox1.Text);for(

inti=0;i<4;++i)

```
{
    if(i%2 ==0)
    {
        for(intj=0;j<4;++j)
        {
            Label1.Text+=number.ToString();
        }
        Label1.Text +=
        "<br/>
        ' br>";if(i%2==0)
        {
            for(intj=0;j<4;++j)
            {
                Label1.Text+=number.ToString()+"";
            }
            Label1.Text+="<br/>
            }
        }
        }
    }
}
```

11. Create a simple web page to display the Date properties (year, month,day,hour,minute,second,millisecondetc.) as well as to display the number of days of they ear between two specified years.

```
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default3.aspx.cs"Inherits="Default3"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <styletype="text/css">
    .auto-style1{
      font-size:xx-large;
  </style>
</head>
<body>
  <formid="form1"runat="server">
    <div class="auto-
      style1">SatyamGupta0
      9<br/>
      <br/>
      <br/>
      <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click"Text="Button"/>
      <br/>
      Number of Days:
      <asp:LabelID="Label1"runat="server"Text="Label"></asp:Label>
  </form>
</body>
</html>
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclassDefault3:System.Web.UI.Page
```

```
protectedvoidPage_Load(objectsender,EventArgse)
{

protectedvoidButton1_Click(objectsender,EventArgse)
{
    DateTime date =
    DateTime.Now;Response.Write(date+"<br/>
    sponse.Write(date.Year+"<br/>
    'br>");Response.Write(date.Day+"<br/>
    'br>");Response.Write(date.Hour+"<br/>
    'br>");Response.Write(date.Hour+"<br/>
    'br>");Response.Write(date.Minute+"<br/>
    'br>");Response.Write(date.Millisecond+"<br/>
    'br>");Response.Write(date.Millisecond+"<br/>
    'br>");Response.Write(date.Millisecond+"<br/>
    'br>");

DateTimedt1=newDateTime(2002,05,02);
DateTimedt2= newDateTime(2022,10,16);

TimeSpants=dt2-dt1;
Label1.Text=ts.TotalDays.ToString();
}
```

}

12. Create a web page containing the student details (RollNo, Name, Class,Phone,Email)andshowresultusingDatabindinganddropdownlistcontrol.

```
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <styletype="text/css">
    .auto-style1
      {width:100%;
    .auto-style2{
      text-align:
      justify;color:#660
      066;
    .auto-style3{
      text-align:center;
  </style>
</head>
<body>
  <formid="form1"runat="server">
      <tableclass="auto-style1">
        >
             <h1class="auto-style2">SatyamGupta&nbsp;&nbsp;09</h1>
             <pclass="auto-</pre>
               style2"> 
             <pclass="auto-</pre>
               style2"> 
           >
           <asp:DropDownListID="DropDownList1"runat="server"CssClass="auto-style3">
             </asp:DropDownList>
           </div>
  </form>
</body>
</html>
CScode:
usingSystem;
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
using
System.Web.UI.WebControls;using
System.Data;
usingSystem.Activities.Expressions;
publicpartialclass_Default:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
    if(!this.IsPostBack)
```

```
List<string> list = new
List<string>();list.Add("09");
list.Add("Satyam
Gupta");list.Add("TYIT")
;list.Add("8433508332");
list.Add("Sg80412111@gmail.com");

DropDownList1.DataSource =
list;DropDownList1.DataBind();
}
}
```

${\bf 14. Create a simple we bpage to demonstrate all string operations.}$

Codes: <@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"%> <!DOCTYPEhtml> <htmlxmlns="http://www.w3.org/1999/xhtml"> <headrunat="server"> <title></title> </head> <body> <formid="form1"runat="server"> <asp:TextBoxID="TextBox1"runat="server"></asp:TextBox> <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click"Text="Button"/> </div> </form> </body> </html> **CSCode:** usingSystem; System.Collections.Generic;using System.Linq; using System.Web;usingSyst em.Web.UI; usingSystem.Web.UI.WebControls; publicpartialclass_Default:System.Web.UI.Page protectedvoidPage_Load(objectsender,EventArgse) $protected void Button 1_Click (objects ender, Event Argse)$ string st = TextBox1.Text;Response.Write(st.ToUpper() + "
'");Response.Write(st.ToLower() + "
'");Response.Write(st.Substring(0, 5) + "
'");Response.Write(st.StartsWith("Sat") +"
br>");Response.Write(st.IndexOf("yam") +

"
'");Response.Write(st.Insert(1,"x")+"
');

}

15. Designanasp.netwebpagewith2groupsofRadioButtons,DropDownList,l abelandTextBoxtoperformthefollowingoperations:-Onclick of Radio Buttons each at the same time from two different groups, change the fontsize and font-face of the label's Text. Also on the samewebpage show that, on selecting a country name from the dropdown list, its respective country codegetsdisplayed in a textbox Design:

```
Codes:
```

```
<%@PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="Default"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
    <title></title>
    <styletype="text/css">
         .auto-style1{
             text-align:center;
         .auto-style2{}
    </style>
</head>
<body>
    <formid="form1"runat="server">
         <divclass="auto-style1">
             <h1>SatyamGupta09</h1>
                  <asp:RadioButton ID="RadioButton1" runat="server" GroupName="Font-
Size"OnCheckedChanged="RadioButton1_CheckedChanged"Text="Bahnschrift"/>
 <asp:RadioButton ID="RadioButton2" runat="server" GroupName="Font-Size" Text="Cambria Math"
/> <asp:RadioButtonID="RadioButton3"runat="server"GroupName="Font-Size"Text="Symbol"/>
             >
                  <asp:RadioButton ID="RadioButton4" runat="server" GroupName="Font-
Face"OnCheckedChanged="fontchanged"Text="10"/>
                  <asp:RadioButton ID="RadioButton5" runat="server" GroupName="Font-
Face"OnCheckedChanged="fontchanged"Text="20"/>
                  <asp:RadioButton ID="RadioButton6" runat="server" GroupName="Font-
Face"OnCheckedChanged="fontchanged"Text="30"/>
             <asp:LabelID="Label1"runat="server"Text="SatyamGupta"></asp:Label>
                  <asp:DropDownList ID="DropDownList1" runat="server" CssClass="auto-style2"</pre>
Height="26px"Width="91px"AutoPostBack="True"OnSelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged="DropDownList1_SelectedIndexChanged
ged">
                      <asp:ListItem>India</asp:ListItem>
                      <asp:ListItem>Nepal</asp:ListItem>
                      <asp:ListItem>Pakistan</asp:ListItem>
                      <asp:ListItem>SaudiaArbia</asp:ListItem>
                  </asp:DropDownList>
              
nbsp;      
                 <asp:TextBoxID="TextBox1"runat="server"></asp:TextBox>
             >
                  
         </div>
    </form>
</body>
</html>
```

```
Cscode:
usingSystem;
System.Collections.Generic;using
System.Drawing;
using
System.Linq;using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclass_Default:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
 protected voidRadioButton1_CheckedChanged(objectsender, EventArgse)
    Label1.Font.Name=((RadioButton)sender).Text;
  protectedvoid fontchanged(objectsender,EventArgse)
    Label 1. Font. Size = Convert. To Int 32 (((Radio Button) sender). Text);\\
  protected void Drop Down List 1\_Selected Index Changed (objects ender, Event Argse)
    if(DropDownList1.SelectedValue=="India")
      TextBox1.Text="+91";
    } }}
Create a delegate del1. Create display1() and display2() static
methods. Create a simple application to call these two methods by the
through thedelegate.
Codes:
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default2.aspx.cs"Inherits="Default2"%>
<!DOCTYPEhtml>
<a href="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
    <div>
    </div>
  </form>
</body>
</html>
cscode:
usingSystem;
using
System.Collections.Generic;using
System.Ling;
using
System.Web;usingSyst
em.Web.UI;
```

usingSystem.Web.UI.WebControls;

publicpartialclassDefault2:System.Web.UI.Page

```
delegatestringdel();
protectedvoidPage_Load(objectsender,EventArgse)
{
    deld1=newdel(display1);deld
    2=newdel(display2);Respons
    e.Write(d1());Response.Write
    (d2());
}
publicstaticstringdisplay1()
{
    return"display1";
}
publicstaticstringdisplay2()
{
    return"display2";
}
```

Create a simple webpage to show how to write and read a cook ie from a client's computer.

Design:

usingSystem;

System.Linq;

System.Collections.Generic;using

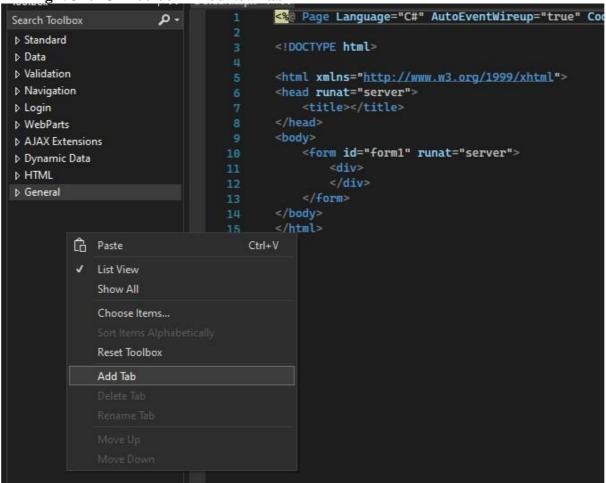
```
Default3.aspx.cs
                                                                   Default2.aspx
                        Default3.aspx → X Default2.aspx.cs
   body
    Write
    Read
Codes:
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default3.aspx.cs"Inherits="Default3"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
      <asp:TextBoxID="TextBox1"runat="server"></asp:TextBox>
      <br/>
      <br/>
      <br/>
      <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click"Text="Write"/>
      <br/>
      <asp:ButtonID="Button2"runat="server"OnClick="Button2_Click"Text="Read"/>
    </div>
  </form>
</body>
</html>
CsCode:
```

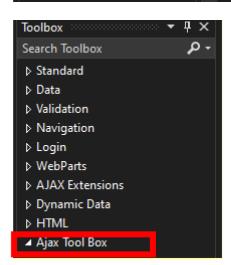
```
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;

publicpartialclassDefault3 :System.Web.UI.Page
{
    protectedvoidPage_Load(objectsender,EventArgse)
    {
        protectedvoidButton1_Click(objectsender,EventArgse)
        {
            HttpCookiecook1=newHttpCookie("user1",TextBox1.Text);
            Response.Cookies.Add(cook1);
        }
        protectedvoidButton2_Click(objectsender,EventArgse)
        {
                 TextBox1.Text=Response.Cookies["user1"].Value;
        }
    }
}
```

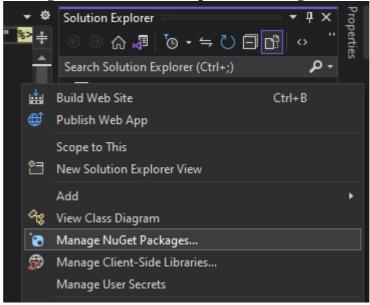
Create a web application to demonstrate use of Html Editor Extender Ajax control.

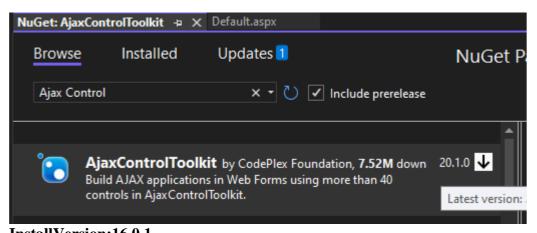
 $1 \rightarrow RightClickOnToolbox \rightarrow AddNewTab$

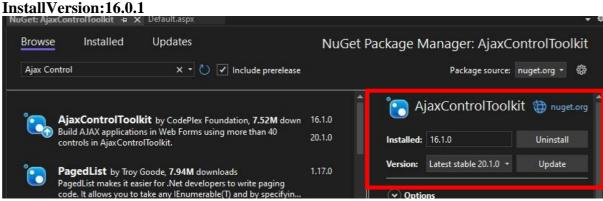




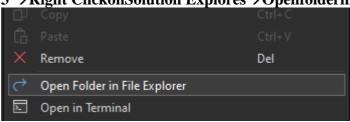
2 → Right Clickon Solution Explorer → Manage NuGet Packages...







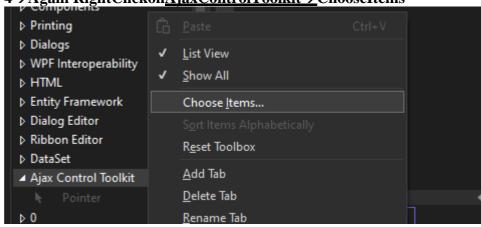
 ${\bf 3} \rightarrow \! {\bf Right\ ClickonSolution\ Explores} \rightarrow \! {\bf Openfolderin} \\ {\bf FileExplorer}$

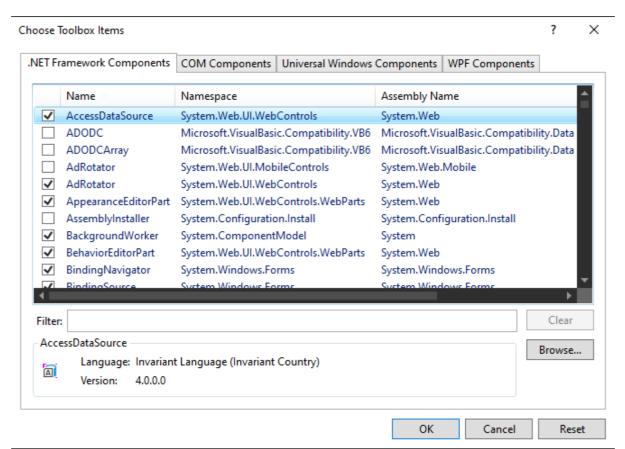


CopytheFollowingDirectory:

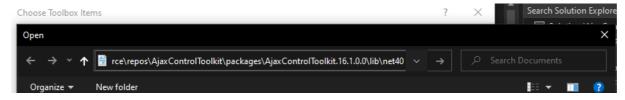
C:\Users\Admin\source\repos\AjaxControlToolkit\packages\AjaxControlToolkit.16.1.0.0 \lib\net40

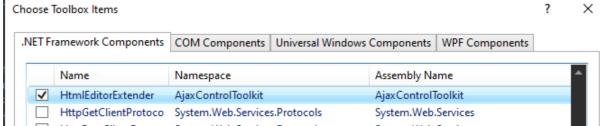
4→Again RightClickon<u>AjaxControlToolkit→</u>ChooseItems





PastethatDirectory





```
Codes:
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
        <title></title>
        <styletype="text/css">
                .auto-style1{
                       text-align:center;
        </style>
</head>
<body>
        <formid="form1"runat="server">
                <div>
                        <h1class="auto-style1">CodeBySatyam09</h1>
                </div>
                <asp:TextBox ID="TextBox1" runat="server" Height="228px"
TextMode="MultiLine"Width="513px"></asp:TextBox>
                <ajaxToolkit:HtmlEditorExtender EnableSanitization="false"
ID = "TextBox1\_HtmlEditorExtender" \\ runat = "server" \\ Behavior \\ ID = "TextBox1\_HtmlEditorExtender" \\ TargetControl 
TextBox1">
                </ajaxToolkit:HtmlEditorExtender>
                <asp:ScriptManagerID="ScriptManager1"runat="server">
                </asp:ScriptManager>
                <br/>
        </form>
</body>
</html>
```

Create a we bapplication to demonstrate use of Master Page with applying Styles and Themes for page beautification.

MasterPage:

```
<% @ MasterLanguage="C#"AutoEventWireup="true"CodeFile="MasterPage2.master.cs"Inherits="MasterPage2"</p>
<!DOCTYPEhtml>
<html>
<headrunat="server">
  <title></title>
  <asp:ContentPlaceHolderid="head"runat="server">
  </asp:ContentPlaceHolder>
</head>
<body>
  <formid="form1"runat="server">
  <div class
    ="head">head
    </div>
    <asp:ContentPlaceHolderid="ContentPlaceHolder1"runat="server">
    </asp:ContentPlaceHolder>
  <div class
    ="foot">foot
  </div>
  </form>
</body>
</html>
Style:
body{
  background-color:green;
.head{
  border: thick solid
  #ff6a00;height:200px;
  background-color:aqua
}
.foot{
  border: thick solid
  yellow;height:200px;
Default.aspx:
@PageTitle=""EnableTheming="true"Theme="green"Language="C#"MasterPageFile="~/MasterPage2.master"A
utoEventWireup="true"CodeFile="Default2.aspx.cs"Inherits="Default2"
<asp:ContentID="Content1"ContentPlaceHolderID="head"Runat="Server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"</pre>
  Runat="Server">Numan
  Mufi
  Arfat
```

FarazSa tyamHu ssainAy aan </asp:Content> Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties.

```
Code:
AdminHome.aspx-
<%@Page
Language="C#"AutoEventWireup="true"CodeFile="AdminHome.aspx.cs"Inherits="
Admin AdminHome" %>
<!DOCTYPEhtmlPUBLIC"-
//W3C//DTDXHTML1.0Transitional//EN""http://www.w3.org/TR/xhtml1/
DTD/xhtml1-transitional.dtd">
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
  <h1>ThisisAdminPage</h1>
  </div>
  </form>
</body>
</html>
StaffHome.aspx-
<%@ Page Language="C#" AutoEventWireup="true"</p>
CodeFile="StaffHome.aspx.cs"Inherits="StaffHome"%>
<!DOCTYPEhtmlPUBLIC"-
//W3C//DTDXHTML1.0Transitional//EN'''http://www.w3.org/TR/xhtml1/
DTD/xhtml1-transitional.dtd">
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
  <h1>ThisisStaffPage</h1>
  </div>
  </form>
</body>
</html>
StudentHome.aspx-
<%@Page
Language="C#"AutoEventWireup="true"CodeFile="StudentHome.aspx.cs"Inherits=
"StudentHome" %>
<!DOCTYPEhtmlPUBLIC"-
//W3C//DTDXHTML1.0Transitional//EN'''http://www.w3.org/TR/xhtml1/
DTD/xhtml1-transitional.dtd">
```

```
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
  <div>
  <h1>Thisisstudetnpage</h1>
  </div>
  </form>
</body>
</html>
login.aspx-
<%@ Page Language=''C#'' AutoEventWireup=''true''</p>
CodeFile="login.aspx.cs"Inherits="login"%>
<!DOCTYPEhtmlPUBLIC"-
//W3C//DTDXHTML1.0Transitional//EN""http://www.w3.org/TR/xhtml1/
DTD/xhtml1-transitional.dtd">
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
  <div>
    <asp:LoginID="Login1"runat="server">
    </asp:Login>
  </div>
  </form>
</body>
</html>
Home.aspx-
<%@ Page Language=''C#'' AutoEventWireup=''true''</p>
CodeFile="Home.aspx.cs"Inherits="Home"%>
<!DOCTYPEhtmlPUBLIC"-
//W3C//DTDXHTML1.0Transitional//EN""http://www.w3.org/TR/xhtml1/
DTD/xhtml1-transitional.dtd">
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headid="Head1"runat="server">
  <title></title>
</head>
<body>
   <formid="form1"runat="server">
```

CreateawebapplicationtodemonstrateGridViewpagingandCreatingown tableformatusingGrid View.

Grid View:

```
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
    <title></title>
</head>
<body>
    <formid="form1"runat="server">
         <div>
             <asp:DetailsViewID="DetailsView1"runat="server"Height="50px"Width="125px">
             </asp:DetailsView>
             <asp:LabelID="Label1"runat="server"Text="Label"></asp:Label>
             <asp:GridView ID="GridView1" runat="server" AllowPaging="True"
AllowSorting="True"AutoGenerateColumns="False"DataKeyNames="RollNo"DataSourceID="Sql
DataSource1">
                      <asp:CommandFieldShowDeleteButton="True"ShowEditButton="True"ShowSelectButton="True"/>
                      <asp:BoundFieldDataField="RollNo"HeaderText="RollNo"ReadOnly="True"SortExpression="Roll"
No"
                      < asp: BoundFieldDataField= "StudentName" \\ HeaderText= "StudentName" \\ SortExpression= "StudentName" \\ In the property of t
/>Name"/
                      <asp:BoundFieldDataField="Address"HeaderText="Address"SortExpression="Address"/>
                 </Columns>
             </asp:GridView>
             <br/>
             <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ConnectionStrings:DatabaseConnectionString%>"DeleteCommand="DELETEFROM[Student]WHERE[Rol
= @Roll_No" InsertCommand="INSERT INTO [Student] ([Roll No], [Student Name], [Address])
VALUES(@Roll No, @Student Name, @Address)" SelectCommand="SELECT * FROM
[Student]"UpdateCommand="UPDATE [Student] SET [Student Name] = @Student_Name, [Address] =
@Address WHERE[RollNo]=@Roll_No">
                 <DeleteParameters>
                      <asp:ParameterName="Roll_No"Type="Int32"/>
                  </DeleteParameters>
                 <InsertParameters>
                      <asp:ParameterName="Roll_No"Type="Int32"/>
                      <asp:ParameterName="Student_Name"Type="String"/>
                      <asp:ParameterName="Address"Type="String"/>
                  InsertParameters>
                 <UpdateParameters>
                      <asp:ParameterName="Student_Name"Type="String"/>
                      <asp:ParameterName="Address"Type="String"/>
                      <asp:ParameterName="Roll_No"Type="Int32"/>
                 </UpdateParameters>
             </asp:SqlDataSource>
         </div>
    </form>
</body></html>
```

$Create a we bapplication to bind data in a multilinet ext box by querying in another {\it constant}. The constant is a superior of the constant of the constan$ textbox.

```
9 +
   Process: [11816] iisexpress.exe
                        Default2.aspx + X Default.aspx.cs
 Default2.aspx.cs
                                                                   Default.aspx
  body
                                   •
   <% textdata %>
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default2.aspx.cs"Inherits="Default2"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
    <div>
      <asp:TextBox ID="TextBox2" Text="<%textdata %>" runat="server"
TextMode="MultiLine"Height="67px"Width="199px"><%textdata %&gt;</asp:TextBox>
      <asp:TextBox ID="TextBox3" runat="server"
AutoPostBack="True"OnTextChanged="TextBox3_TextChanged"></asp:T
extBox>
    </div>
  </form>
</body>
</html>
Cscode:
usingSystem;
System.Collections.Generic;using
System.Ling;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclassDefault2:System.Web.UI.Page
  publicstringtextdata;
  protectedvoidPage_Load(objectsender,EventArgse)
  protectedvoidTextBox3_TextChanged(objectsender,EventArgse)
    textdata=TextBox3.Text;t
    his.DataBind();
}
```

22. WriteaprogramtocreateaDLLtoprintafactorialofanumber.

```
Button
ClassLibrary:
namespaceClassLibrary1
      publicclassClass1
                    publicstringfact(intn)
                          int d=1;
                          for(inti=1;i<=n;i++)
                                d*=i;
                          }
                          returnd.ToString();
}
Source:
<%@PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Default"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
      <title></title>
      <styletype="text/css">
             .auto-style1{
                  text-align:center;
             }
             .auto-style2
                    {color:#0099CC
             }
      </style>
</head>
<body>
      <formid="form1"runat="server">
             <divclass="auto-style1">
                    <a href="mailto:</a> <a href="mailto:style2">SatyamGuptaTYIT</a> <a href="mailto:style2">span><a href="mailto:style2">span=<a href="mailto:style2">span=<a href="mailto:style2">span=<a href="mailto:style2">span=<a href="
                    </h3>
                     
             <asp:TextBox ID="TextBox1"
runat="server"></asp:TextBox>&nbsp;&nbsp;&nbsp;&nbsp
;  
             <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button"
/>         
             <asp:TextBoxID="TextBox2"runat="server"></asp:TextBox>
      </form>
</body>
</html>
CS:
usingSystem;
usingSystem.Collections.Generic;
```

```
using
System.Linq;using
System.Web;usingSyst
em.Web.UI;
using
System.Web.UI.WebControls;using
ClassLibrary1;
publicpartialclass_Default:System.Web.UI.Page
{
    protectedvoidPage_Load(objectsender,EventArgse)
    {
        Class1c=new Class1();
        TextBox2.Text=c.fact(Convert.ToInt32(TextBox1.Text));
    }
}
```

23. WriteanApplicationto:

- 1. GenerateFibonacciseries
- 2. Testforprimenumbers
- 3. Testforvowels
- 4. Reverseanumber

```
ΟÔ
      File
             Edit
                   View
                           Git
                                Project
                                         Build
                                                 Debug
                                                          Format
                                                                    Table
                                                                           Test
                                                                                  Analyze
                                                                                            Tools
                                                                                                   Exte
                                                        Any CPU
              智・≅ 🖺 🖺
                                                                           IIS Express (Google Chrome)
                                             Debug
 Default3.aspx + ×
  body
         prime
   fib
                 vow
                          Reverse
                                                         Label
Code:
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default3.aspx.cs"Inherits="Default3"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
      <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click"Text="fib"/>
 <asp:Button ID="Button3" runat="server" OnClick="Button3_Click" style="width: 48px" Text="prime"
/> <asp:Button ID="Button4" runat="server" OnClick="Button4_Click" style="width: 35px" Text="vow"
/>   
      <asp:ButtonID="Button5"runat="server"OnClick="Button5_Click"Text="Reverse"/>
 
      <asp:TextBoxID="TextBox1"runat="server"></asp:TextBox>
      <asp:LabelID="Label1"runat="server"Text="Label"></asp:Label>
    </div>
  </form>
</body>
</html>
Code:
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclassDefault3:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
  }
  protectedvoidButton1_Click(objectsender,EventArgse)
```

```
Label1.Text=fib(Convert.ToInt32(TextBox1.Text));
publicstringfib(intlimit)
   int x =
  0;int y =
   1;intz;
  string
  st=x+","+y+",";for(inti=0;i
   <10;i++)
     z=x+y;x
     =y;
     y=z;
     if(z> limit)
       break;
     st+=z+",";
   }
  returnst;
publicstringprime(int num)
   for(inti=2;i<num;i++)</pre>
     if(num % i==0)
       return"Yes";
  return"No";
publicstringvow(stringc)
   if("aeiou".Contains(c))
     return"vow";
   }
  else
   {
     return"Novowel";
protectedvoidButton3_Click(objectsender,EventArgse)
   Label1.Text=prime(Convert.ToInt32(TextBox1.Text));
protectedvoidButton4_Click(objectsender,EventArgse)
  Label1.Text=vow(TextBox1.Text);
protected void Button 5\_Click (objects ender, Event Argse)
   Label1.Text="";
   for(inti= TextBox1.Text.Length -1;i>-1;i--)
     Label1.Text+=TextBox1.Text[i];
}
```

23. CreateasimplewebpagetodemonstrateuseofbuiltinDivideByZeroExcept ion and IndexOutOfRangeException exceptions usingtextboxand labelcontrol.

Default.aspx:

```
<%@PageLanguage="C#"AutoEventWireup="true"CodeFile="Default2.aspx.cs"Inherits="Default2"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
      <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click"Text="Button"/>
    </div>
  </form>
</body>
</html>
Code:
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclassDefault2:System.Web.UI.Page
  protected void Page\_Load (objects ender, Event Argse)
  protectedvoidButton1_Click(objectsender,EventArgse)
    try
      string[] arr = new
      string[3];arr[0]="a";
      arr[1]="b";
      arr[2]="c";
      int a =
       10:int b =
      20; intc= a
    catch(IndexOutOfRangeExceptionior)
      Response.Write(ior.ToString());
    catch(DivideByZeroExceptiondbz)
       Response.Write(dbz.ToString());
    }
  }
}
```

24. Create a simple web page to show data in Tree view control and datalistusingweb. Sitemapfile containing navigation information. Design:

```
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default3.aspx.cs"Inherits="Default3"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
      <asp:TreeViewID="TreeView1"runat="server"DataSourceID="SiteMapDataSource1">
      </asp:TreeView>
      <asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server"
/>@SatyamGupta
    </div>
  </form>
</body>
</html>
Sitemap:
<?xmlversion="1.0"encoding="utf-8"?>
<siteMapxmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0">
        <siteMapNodeurl="Numan.com"title=""description="Numan">
                 <siteMapNodeurl="yahoomail.com"title="yahoomail"description="mail">
                         <siteMapNodeurl="sportsnews1.com"title="sports1"description="sports"/>
        </siteMapNode>
        <\!\!siteMapNodeurl="yahoonews.com" title="yahoonews" description="news">\!\!
                 <siteMapNodeurl="sportsnews.com"title="sports"description="sports"/>
                 <siteMapNodeurl="gloabalnews.com"title="global"description="gloabal"/>
        </siteMapNode>
        </siteMapNode>
</siteMap>
```

${\bf 25.\ Display the no. of visitors on a given we bpage.}$

```
Default.aspx:
@PageLanguage="C#"AutoEventWireup="true"CodeFile="Default4.aspx.cs"Inherits="Default4"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
    <div>
    </div>
  </form>
</body>
</html>
Code:
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclassDefault4:System.Web.UI.Page
  protected void Page\_Load (objects ender, Event Argse)
    Response.Write(Application["usercount"].ToString());
Global.asax:
<% @ Application Language="C#"%>
<scriptrunat="server">
  voidApplication_Start(objectsender,EventArgse)
    //Codethatrunson applicationstartup
  }
  voidApplication_End(objectsender,EventArgse)
    //Codethatrunson applicationshutdown
  }
  voidApplication_Error(objectsender,EventArgse)
    //Codethatrunswhenanunhandlederroroccurs
  }
  voidSession_Start(objectsender,EventArgse)
     Application.Lock();
```

Application["usercount"]=Convert.ToInt32(Application["usercount"])+1;

```
Application.UnLock();
}
voidSession_End(objectsender,EventArgse)
{
}
</scrip>
```

- 27. Create a registration form having text fields for accepting, Name, Age, Email, Address and Mobile number. Perform the following validations for the same:
- 1. Allfieldsneedtobefilledcompulsorily
- ${\bf 2.\ Name should contain only alpha bets and should not be more than 25 characters long}$
- 3. Validateemailandmobilenumberappropriately
- 4. Ageshouldbebetween18and32only.

Include submit and cancel buttons. On click of submit button, open a new pageanddisplayalltheinformationenteredbytheuserandonclickofcancelbutton, all textfields should be cleared.

```
Default.aspx:
```

```
«PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits=" Default"
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <styletype="text/css">
    .auto-style1{
      text-align:
      center;color:
      #006600;font-
      size:large;
    .auto-style2
      {width:85px;
  </style>
</head>
<body>
  <formid="form1"runat="server">
      <tablestyle="width:100%;">
          <tdclass="auto-style1"colspan="3"><strong>Registration</strong>
        <tdclass="auto-style2">NAME:
             <asp:TextBoxID="TextBox1"runat="server"></asp:TextBox>
             <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
runat="server"ControlToValidate="TextBox1" Display="Dynamic"
ErrorMessage="*"ForeColor="Red"></asp:RequiredFieldValidator>
             <asp:RegularExpressionValidator ID="RegularExpressionValidator1"
runat="server"ControlToValidate="TextBox1" Display="Dynamic" ErrorMessage="Only Aphabets and not
more than 25Characters "ForeColor="Red" Validation Expression="[a-zA-
Z]{5,25}"></asp:RegularExpressionValidator>
           
        <tdclass="auto-style2">AGE:
             <asp:TextBoxID="TextBox2"runat="server"></asp:TextBox>
             <asp:RequiredFieldValidator ID="RequiredFieldValidator2"
runat="server"ControlToValidate="TextBox2" Display="Dynamic"
```

```
ErrorMessage="*"ForeColor="Red"></asp:RequiredFieldValidator>
           <asp:RangeValidator ID="RangeValidator1" runat="server"
ControlToValidate="TextBox2"Display="Dynamic" ErrorMessage="18 to 32 Only" ForeColor="Red"
MaximumValue="32" MinimumValue="18"Type="Integer"></asp:RangeValidator>
          
       <tdclass="auto-style2">EMAIL:
            <asp:TextBoxID="TextBox3"runat="server"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator3"
runat="server"ControlToValidate="TextBox3" Display="Dynamic"
ErrorMessage="*"ForeColor="Red"></asp:RequiredFieldValidator>
            <asp:RegularExpressionValidator ID="RegularExpressionValidator2"
runat="server"ControlToValidate="TextBox3" Display="Dynamic" ErrorMessage="Invalid Email"
.]\w+)*"></asp:RegularExpressionValidator>
          
       <tdclass="auto-style2">ADDRESS:
            <asp:TextBoxID="TextBox4"runat="server"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator4"
runat="server"ControlToValidate="TextBox4" Display="Dynamic"
ErrorMessage="*"ForeColor="Red"></asp:RequiredFieldValidator>
          
        <tdclass="auto-style2">PHONE:
            <asp:TextBoxID="TextBox5"runat="server"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator5"
runat="server"ControlToValidate="TextBox5" Display="Dynamic"
ErrorMessage="*"ForeColor="Red"></asp:RequiredFieldValidator>
           <asp:RegularExpressionValidator ID="RegularExpressionValidator3"
runat="server"ControlToValidate="TextBox5" Display="Dynamic" ErrorMessage="Invalid Phone"
ForeColor="Red"ValidationExpression="\d{10}"></asp:RegularExpressionValidator>
          
       <tdclass="auto-style2">&nbsp;
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="SUBMIT"
/>   
            <asp:ButtonID="Button2"runat="server"OnClick="Button2_Click"Text="CLEAR"/>
          
        </div>
  </form>
</body>
</html>
Default.aspx.cs:
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
```

```
publicpartialclass_Default:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
  }
  protectedvoidButton1_Click(objectsender,EventArgse)
Response.Redirect("Default2.aspx?na="+TextBox1.Text+"&ag="+TextBox2.Text+"&em="+TextBox3.Text+"&ad="
+TextBox4.Text
       +"&Ph="+TextBox5.Text+"");
  }
  protectedvoidButton2_Click(objectsender,EventArgse)
    TextBox1.Text
    "";TextBox2.Text =
    "";TextBox3.Text =
    "";TextBox4.Text =
    "";TextBox5.Text="
  }
}
Default2.aspx:
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default2.aspx.cs"Inherits="Default2"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
</head>
<body>
  <formid="form1"runat="server">
    </div>
  </form>
</body>
</html>
Default2.aspx.cs
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclassDefault2:System.Web.UI.Page
  protectedvoidPage_Load(objectsender,EventArgse)
    Response.Write(Request.QueryString["na"]+"<br/>br>");
    Response.Write(Request.QueryString["ag"]+"<br/>');
    Response. Write (Request. Query String ["em"] + " <\! br >\! ");
    Response.Write(Request.QueryString["ad"]+"<br/>');
    Response.Write(Request.QueryString["Ph"]+"<br/>');
}
```

30. Createawebpagewithmultilinetextboxandtwobuttons, viz.saveContents and loadContents. On click of saveContents button, contentsfromthetextboxshouldberetained and onclick of loadContents button, the previously saved contents should be displayed backon the textbox. Design:

Codes:

```
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default6.aspx.cs"Inherits="Default6"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <styletype="text/css">
    .auto-style1{
      text-align:center;
  </style>
</head>
<body>
  <formid="form1"runat="server">
    <divclass="auto-style1">
      <h1>
      <asp:TextBox ID="TextBox2" runat="server" CssClass="auto-style1"
Height="129px"TextMode="MultiLine"Width="239px"></asp:TextBox>
      <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click"Text="SaveContent"/>
 
      <asp:ButtonID="Button2"runat="server"OnClick="Button2_Click"Text="LoadContent"/>
        <br/>
        SatyamGupta</h1>
```

```
</div>
  </form>
</body>
</html>
CScode:
usingSystem;
using
System.Collections.Generic;using
System.Linq;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
{\color{blue} public partial class Default 6: System. Web. UI. Page}
  stringdata= "";
  {\color{blue}protected void Page\_Load (objects ender, Event Argse)}
  protected void Button 1\_Click (objects ender, Event Argse)
     ViewState["data"]=TextBox2.Text;
TextBox2.Text="";
  protected void Button 2\_Click (objects ender, Event Argse)
     TextBox2.Text=ViewState["data"].ToString();
}
```

31. Store 3 objects of the furniture class having 3 data members (name,manufacturer, and cost) in 3 session objects. Display a panel to include alistbox displaying the names of all three furniture objects, and a buttonnamed "MoreInformation". On click of the button retrieve the selectedobject(fromlistbox) informationand display itina label.

```
Codes:
```

}

```
<@ PageLanguage="C#"AutoEventWireup="true"CodeFile="Default7.aspx.cs"Inherits="Default7"%>
<!DOCTYPEhtml>
<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
  <title></title>
  <style
    type="text/css">#for
    m1 {
      text-align:center;
    .auto-
      style1{color:#66
      FFCC;
    }
  </style>
</head>
<body>
  <formid="form1"runat="server">
   <div>
    <asp:ListBoxID="ListBox1"runat="server"></asp:ListBox>
    <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button"</pre>
/> <asp:LabelID="Label1"runat="server"Text="Label"></asp:Label>
    <br/>
    <br/>
    <spanclass="auto-style1">CodeBySatyam</span></form>
</body>
</html>
CsCode:
usingSystem;
using
System.Collections.Generic;using
System.Ling;
using
System.Web;usingSyst
em.Web.UI;
usingSystem.Web.UI.WebControls;
publicpartialclassDefault7:System.Web.UI.Page
  protected void Page\_Load (objects ender, Event Argse)
    if(!IsPostBack)
      Session["s1"] = new Furniture("chair1", "xyz1",
      "1001"); Session["s2"] = new Furniture("chair2", "xyz2",
       "1002");Session["s3"]=newFurniture("chair3","xyz3",
       "1003");
      ListBox1.Items.Add(((Furniture)Session["s1"]).name);
      ListBox1.Items.Add(((Furniture)Session["s2"]).name);
      ListBox1.Items.Add(((Furniture)Session["s3"]).name);
    }
```

```
protectedvoidButton1_Click(objectsender,EventArgse)
    if(ListBox1.SelectedIndex!= -1)
       if(ListBox1.SelectedIndex== 0)
         Label1.Text=((Furniture)Session["s1"]).money;Label
         1.Text=((Furniture)Session["s1"]).cost;
       elseif(ListBox1.SelectedIndex==1)
         Label 1. Text = ((Furniture) Session ["s2"]). money; Label \\
         1.Text=((Furniture)Session["s2"]).cost;
       elseif(ListBox1.SelectedIndex==2)
         Label1.Text=((Furniture)Session["s3"]).money;Label
         1.Text=((Furniture)Session["s3"]).cost;
    }
}
class Furniture
  public string
  name; public string
  money;publicstringc
  ost;
  publicFurniture(stringname,stringmoney,stringcost)
    this.name =
    name;this.money =
    money;this.cost=cost
  }
```

${\bf 32.}\ Write a program in C\#to demonstrate multiple inheritance using interfaces.$

Code:

```
usingSystem;
publicclassProgram
{
    publicinterfacecommon
    {
        voidDisplayed();
    }
    publicclass A :common
    {
            console.WriteLine("ThisisthemethodofClassA");
        }
    }
    publicclass B:common
    {
        publicvoidDisplayed()
        {
                 Console.WriteLine("ThisisthemethodofClassB");
        }
        publicstaticvoidDisplayed()
        {
                 Console.WriteLine("ThisisthemethodofClassB");
        }
        publicstaticvoidMain()
        {
                 Console.WriteLine("Code by Satyam 09"); Console.WriteLine("Multiple Interface Using Interface"); common c; c=newA(); c.Displayed(); c=newB(); c.Displayed(); Console.ReadLine();
        }
}
```