Slip No. 2

A] Create a simple web page with various sever controls to demonstrate setting and use of their properties. (Example: AutoPostBack)

1. On click of a button control display the selected items from the listbox in a textbox. Also in the same webpage display the name of the selected item from the DropDownList1 in a label. Also change the font size of the same label according to the font size selected from the Dropdownlist2.
2. Display Image control for photo.
3. Check Boxes provides special formatting (viz. underline, bold, italic) and Radio Buttons provides color for label.
4. Use of AutoPostBack property.

Ans. Default.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:Label ID="Label5" runat="server" Text="Select one hobby: "></asp:Label> 
    <asp:ListBox ID="ListBox1" runat="server">
      <asp:ListItem>Dancing</asp:ListItem>
      <asp:ListItem>Singing</asp:ListItem>
      <asp:ListItem>Reading</asp:ListItem>
    </asp:ListBox><br /><br />
    <asp:Button ID="Button1" runat="server" Text="Ok" onclick="Button1_Click" /><br />
<br />
    <asp:Label ID="Label6" runat="server" Text="Select any one: "></asp:Label> 
    <asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="True"
      onselectedindexchanged="DropDownList1_SelectedIndexChanged">
      <asp:ListItem>Summer</asp:ListItem>
      <asp:ListItem>Winter</asp:ListItem>
      <asp:ListItem>Rainy</asp:ListItem>
    </asp:DropDownList><br /><br />
    <asp:Label ID="Label2" runat="server" Text="Select font size:"></asp:Label>
    <asp:DropDownList ID="DropDownList2" runat="server" AutoPostBack="True"
      onselectedindexchanged="DropDownList2_SelectedIndexChanged">
      <asp:ListItem>12</asp:ListItem>
      <asp:ListItem>14</asp:ListItem>
      <asp:ListItem>16</asp:ListItem>
      <asp:ListItem>18</asp:ListItem>
```

```
    </asp:DropDownList><br /><br />
    <asp:Label ID="Label3" runat="server" Text="Select Special Formatting:"></asp:Label>
    <asp:CheckBoxList ID="CheckBoxList1" runat="server" AutoPostBack="True"
      onselectedindexchanged="CheckBoxList1_SelectedIndexChanged">
      <asp:ListItem>Underline</asp:ListItem>
      <asp:ListItem>Bold</asp:ListItem>
      <asp:ListItem>Italic</asp:ListItem>
    </asp:CheckBoxList><br />
    <asp:Label ID="Label4" runat="server" Text="Select Color for label:"></asp:Label>
    <asp:RadioButtonList ID="RadioButtonList1" runat="server" AutoPostBack="True"
      onselectedindexchanged="RadioButtonList1_SelectedIndexChanged">
      <asp:ListItem>Red</asp:ListItem>
      <asp:ListItem>Blue</asp:ListItem>
      <asp:ListItem>Green</asp:ListItem>
    </asp:RadioButtonList><br />
    <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox> 
    <asp:Label ID="Label1" runat="server" Text=""></asp:Label><br /><br />
    <asp:Image ID="Image1" runat="server" DescriptionUrl="~/google.jpg" Height="60px"
Width="60px" />
  </div>
  </form>
</body>
</html>
```

Default.aspx.cs:

```
 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)
  {
    TextBox1.Text = ListBox1.SelectedItem.Value.ToString();
  }
  protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
  {
    Label1.Text = DropDownList1.SelectedItem.Value.ToString();
  }
  protected void DropDownList2_SelectedIndexChanged(object sender, EventArgs e)
```

```
{
   Label1.Font.Size = (FontUnit)Int32.Parse(DropDownList2.SelectedItem.Value);
}
protected void RadioButtonList1_SelectedIndexChanged(object sender, EventArgs e)
{
   if(RadioButtonList1.SelectedItem.Value.ToString()=="Red")
      Label1.ForeColor = System.Drawing.Color.Red;
   if (RadioButtonList1.SelectedItem.Value.ToString() == "Blue")
      Label1.ForeColor = System.Drawing.Color.Blue;
   if (RadioButtonList1.SelectedItem.Value.ToString() == "Green")
         Label1.ForeColor = System.Drawing.Color.Green;
}
protected void CheckBoxList1_SelectedIndexChanged(object sender, EventArgs e)
{
   for (int i = 0; i < CheckBoxList1.Items.Count; i++)
   {
      if (i == 0)
      {
         if (CheckBoxList1.Items[i].Selected)
         {
            Label1.Font.Underline = true;
         }
         else
         {
            Label1.Font.Underline = false;
         }
      }
      if (i == 1)
      {
         if (CheckBoxList1.Items[i].Selected)
         {
            Label1.Font.Bold = true;
         }
         else
         {
            Label1.Font.Bold = false;
         }
      }
      if (i == 2)
      {
         if (CheckBoxList1.Items[i].Selected)
         {
            Label1.Font.Italic = true;
         }
```

```
            else
            {
               Label1.Font.Italic = false;
            }
         }
      }
   }
}
```

B] Create a simple web page to count the number of times the current webpage is submitted to the server onclick event of a Button.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server"></asp:Label><br /><br />
      <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Ok" />
   </div>
   </form>
</body>
</html>
```

Default.aspx.cs:

```
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
{
   int count = 0;
   protected void Page_Load(object sender, EventArgs e)
   {
      if (!Page.IsPostBack)
      {
         Label1.Text = count.ToString();
      }
   }
```

```
    protected void Button1_Click(object sender, EventArgs e)
    {
        if (int.TryParse(Label1.Text, out count))
        {
            ++count;
            Label1.Text = count.ToString();
        }
    }
}
```

Slip No. 3

A] Create simple application to perform following operations

i. Finding factorial Value

ii. Money Conversion

iii. Cube of given number

iv. Generate Fibonacci series

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:Label ID="Label1" runat="server" Text="Enter a number:"></asp:Label>  
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
        <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Factorial" />
        <asp:Label ID="Label3" runat="server"></asp:Label><br /><br /><br />
        <asp:Label ID="Label2" runat="server" Text="Enter Dollars:"></asp:Label> 
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br /><br />
        <asp:Button ID="Button2" runat="server" onclick="Button2_Click" Text="Convert" />
        <asp:Label ID="Label4" runat="server"></asp:Label><br /><br /><br />
        <asp:Label ID="Label5" runat="server" Text="Enter a number:"></asp:Label> 
        <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br /><br />
        <asp:Button ID="Button3" runat="server" onclick="Button3_Click" Text="Cube" />
        <asp:Label ID="Label6" runat="server"></asp:Label><br /><br /><br />
        <asp:Label ID="Label7" runat="server" Text="Enter no of values:"></asp:Label> 
        <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox><br /><br />
        <asp:Button ID="Button4" runat="server" onclick="Button4_Click" Text="Fibonacci Series"
        <asp:Label ID="Label8" runat="server"></asp:Label>
    </div>
    </form>
</body>
```

```
</html>
```

Default.aspx.cs:

```
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)
   {
      int n = Int32.Parse(TextBox1.Text);
      int r = 1;
      for (int i = 1; i <= n; i++)
      {
         r = r * i;
      }
      Label3.Text = r.ToString();
   }
   protected void Button2_Click(object sender, EventArgs e)
   {
      int n1=Int32.Parse(TextBox2.Text);
      Label4.Text = (n1 * 73).ToString();
   }
   protected void Button3_Click(object sender, EventArgs e)
   {
      int n1 = Int32.Parse(TextBox3.Text);
      Label6.Text = (n1 * n1 * n1).ToString();
   }
   protected void Button4_Click(object sender, EventArgs e)
   {
      int n1 = Int32.Parse(TextBox4.Text);
      int a = 0, b = 1, c;
      Label8.Text = a + " " + b + " ";
      for (int i = 3; i <= n1; i++)
      {
         c = a + b;
         Label8.Text = Label8.Text + c + " ";
         a = b;
         b = c;
```

```
    }
  }
}
```

B] Demonstrate the use of Calendar control to perform following operations.

a) Display messages in a calendar control

b) Display vacation in a calendar control

c) Selected day in a calendar control using style

d) Difference between two calendar dates

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
        <head runat="server">
                <title></title>
        </head>
        <body>
                <form id="form1" runat="server">
                        <asp:Calendar ID="Calendar1" runat="server" BackColor="White"
BorderColor="#3366CC" BorderWidth="1px" CellPadding="1"
DayNameFormat="Shortest" Font-Names="Verdana" Font-Size="8pt"
ForeColor="#003399" Height="200px" ondayrender="Calendar1_DayRender"
onselectionchanged="Calendar1_SelectionChanged" Width="220px">
                        <DayHeaderStyle BackColor="#99CCCC" ForeColor="#336666"
                Height="1px" />
                        <NextPrevStyle Font-Size="8pt" ForeColor="#CCCCFF" />
                        <OtherMonthDayStyle ForeColor="#999999" />
                        <SelectedDayStyle BackColor="#009999" Font-Bold="True"
                ForeColor="#CCFF99" />
                        <SelectorStyle BackColor="#99CCCC" ForeColor="#336666" />
                        <TitleStyle BackColor="#003399" BorderColor="#3366CC"
                BorderWidth="1px"
Font-Bold="True" Font-Size="10pt" ForeColor="#CCCCFF" Height="25px" />
                        <TodayDayStyle BackColor="#99CCCC" ForeColor="White" />
                        <WeekendDayStyle BackColor="#CCCCFF" />
                        </asp:Calendar><br />
                        <asp:Label ID="Label1" runat="server" Text=""></asp:Label>
                </form>
        </body>
</html>
```

Default.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.Collections;
public partial class _Default : System.Web.UI.Page
{
        protected void Page_Load(object sender, EventArgs e)
        {       }
        protected void Calendar1_SelectionChanged(object sender, EventArgs e)
        {
                DateTime d = DateTime.Now;
                DateTime d1 = Calendar1.SelectedDate.Date;
                TimeSpan t = d.Subtract(d1);
                Label1.Text = "Selected date: " +
        Calendar1.SelectedDate.Date.ToShortDateString() + "<br>Difference between dates: " +
        d1.Date.ToShortDateString() + " and " + d.Date.ToShortDateString() + " is:" + t.Days + "
        days";
        }
        Label l1 = new Label();
        protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
        {
                Style s = new Style();
                s.BackColor = System.Drawing.Color.Pink;
                s.BorderColor = System.Drawing.Color.Red;
                s.BorderWidth = 2;
                if (e.Day.Date.Day == 2 && e.Day.Date.Month == 10)
                {
                        e.Cell.BackColor = System.Drawing.Color.LightBlue;
                        l1.Text = "<br>Gandhi jayanti";
                        e.Cell.Controls.Add(l1);
                }
                if (e.Day.Date == new DateTime(2018, 10, 18))
                {
                        e.Cell.ApplyStyle(s);
                        l1.Text = "<br>Maha Navami";
                        e.Cell.Controls.Add(l1);
                }
                if (e.Day.Date == new DateTime(2018, 10, 19))
                {
                        e.Cell.ApplyStyle(s);
                        l1.Text = "<br>Dusehra";
                        e.Cell.Controls.Add(l1);
                }
                if (e.Day.Date == new DateTime(2018, 10, 27))
```

```
                {
                        e.Cell.ApplyStyle(s);
                        l1.Text = "<br>Karva Chauth";
                        e.Cell.Controls.Add(l1);
                }
        }
}
```

Slip No. 4

A] Create Web Form to demonstrate use of User Control. Create footer named user control having copyright reserved (ex. “©company name”) and use it in a webpage.

Ans. WebUserControl.ascx:

```
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="WebUserControl.ascx.cs"
Inherits="WebUserControl" ClassName="Footer" %>
        <asp:Label ID="Label1" runat="server" Text="Enter Company Name:"></asp:Label>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Create
Copyright" />
        <asp:Label ID="Label2" runat="server" Text=""></asp:Label>
```

WebUserControl.ascx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class WebUserControl : System.Web.UI.UserControl
{
   protected void Page_Load(object sender, EventArgs e)
   {   }
   protected void Button1_Click(object sender, EventArgs e)
   {
      Label2.Text +="&#169 " + TextBox1.Text; //&#169 is asci value for copyright sybmol
   }
}
```

Default.aspx:

```
<%@ Register Src="~/WebUserControl.ascx" TagName="Footer" TagPrefix="wuc" %>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
```

```
<body>
   <form id="form1" runat="server">
      <wuc:Footer ID="w1" runat="server" />
   </form>
</body>
</html>
```

B] Create Web Form to demonstrate use of Ad Rotator Control with five advertisements. Also demonstrate how keyword filter works.

Ans. Default.aspx:

```
<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="~/XMLFile.xml" />
   </div>
   </form>
</body>
</html>
```

XMLFile.xml:

```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
 <Ad>
   <ImageUrl>fb.png</ImageUrl>
   <NavigateUrl>http://www.facebook.com</NavigateUrl>
   <AlternateText>FaceBook</AlternateText>
   <Keyword>facebook</Keyword>
 </Ad>
 <Ad>
   <ImageUrl>google.jpg</ImageUrl>
   <NavigateUrl>http://www.google.com</NavigateUrl>
   <AlternateText>Google</AlternateText>
   <Keyword>google</Keyword>
 </Ad>
 <Ad>
   <ImageUrl>flower1.jpg</ImageUrl>
   <NavigateUrl>http://www.wikipedia.org</NavigateUrl>
   <AlternateText>WikiPedia</AlternateText>
   <Keyword>flower</Keyword>
```

```
 </Ad>
 <Ad>
  <ImageUrl>flower2.jsp</ImageUrl>
  <NavigateUrl>http://www.hrcollege.edu</NavigateUrl>
  <AlternateText>HR College</AlternateText>
  <Keyword>flower</Keyword>
 </Ad>
 <Ad>
  <ImageUrl>flower3.jpg</ImageUrl>
  <NavigateUrl>http://www.kccollege.edu.in</NavigateUrl>
  <AlternateText>KC College</AlternateText>
  <Keyword>flower</Keyword>
 </Ad>
</Advertisements>
```

Slip No. 5

B] Create simple web page that takes a number as input and display it four times in a row (separated by blank spaces), and then four times in the next row, with no separation.
Like-
Enter a digit: 22
Expected Output:
22 22 22 22
22222222
22 22 22 22
22222222
Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:Label ID="Label1" runat="server" Text="Enter a number:"></asp:Label> 
    <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
    <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Ok" /><br />
    <br />
    <asp:Label ID="Label2" runat="server"></asp:Label>
  </div>
  </form>
</body>
</html>
```

Default.aspx.cs:

```
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)
   {
      int n = Int32.Parse(TextBox1.Text);
      for (int i = 1; i <= 4; i++)
      {
         for (int j = 1; j <= 4; j++)
         {
            if (i % 2 == 0)
               Label2.Text += n + " ";
            else
               Label2.Text += n;
         }
         Label2.Text += "<br/>";
      }
   }
}
```

Slip No. 6

A] Create a simple web page to display the Date properties (year, month, day, hour, minute, second, millisecond etc.) as well as to display the number of days of the year between two specified years.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server"></asp:Label><br /><br /><br />
      <asp:Label ID="Label2" runat="server" Text="Enter 1st year:"></asp:Label>  
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
```

```
      <asp:Label ID="Label3" runat="server" Text="Enter 2nd year:"></asp:Label> 
      <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Ok" />
      <asp:Label ID="Label4" runat="server"></asp:Label>
   </div>
   </form>
</body>
</html>
```

Default.aspx.cs:

```
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 = "Current Date Time is: "+ DateTime.now;
      int n1 = Int32.Parse(TextBox1.Text);
      int n2 = Int32.Parse(TextBox2.Text);
      DateTime d1 = new DateTime(n1,1,1);
      DateTime d2 = new DateTime(n2,1,1);
      if(d1>d2)
         Label4.Text = "Difference in days of year=" + (d1 - d2).Days;
      else
         Label4.Text = "Difference in days of year=" + (d2 - d1).Days;
   }
}
```

B] Create a web page containing the student details (RollNo, Name, Class, Phone, Email) and show result using Databinding and dropdownlist control.

Ans. Default.aspx:

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

```
   <div>
      <asp:Label ID="Label1" runat="server" Text="Enter Roll No:"></asp:Label> 
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
      <asp:Label ID="Label2" runat="server" Text="Enter Name:"></asp:Label> 
      <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br /><br />
      <asp:Label ID="Label3" runat="server" Text="Enter Class:"></asp:Label> 
      <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br /><br />
      <asp:Label ID="Label4" runat="server" Text="Enter Phone No.:"></asp:Label> 
      <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox><br /><br />
      <asp:Label ID="Label5" runat="server" Text="Enter Email:"></asp:Label> 
      <asp:TextBox ID="TextBox5" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button1" runat="server" Text="Ok" onclick="Button1_Click" /> 
      <asp:Label ID="Label6" runat="server" Text=""></asp:Label><br /><br />
      <asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="~/Default1.aspx">Click here
to view records</asp:HyperLink>
   </div>
   </form>
</body>
</html>
```

Default.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.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Data.SqlTypes;
public partial class Default3 : System.Web.UI.Page
{
   protected void Page_Load(object sender, EventArgs e)
   {   }
   protected void Button1_Click(object sender, EventArgs e)
   {
      String conn = ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
      SqlConnection c1 = new SqlConnection(conn);
      c1.Open();
      String ins = "insert into detail values(@rollNo,@sname,@class,@phone,@email)";
      SqlCommand cmd = new SqlCommand(ins, c1);
      cmd.Parameters.AddWithValue("@rollNo", TextBox1.Text);
      cmd.Parameters.AddWithValue("@sname", TextBox2.Text);
```

```
        cmd.Parameters.AddWithValue("@class", TextBox3.Text);
        cmd.Parameters.AddWithValue("@phone", TextBox4.Text);
        cmd.Parameters.AddWithValue("@email", TextBox5.Text);
        cmd.ExecuteNonQuery();
        Label6.Text = "Record inserted.";
    }
}
```

Default1.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:Label ID="Label1" runat="server" Text="Select student name:"></asp:Label>
  
        <asp:DropDownList ID="DropDownList1" runat="server"
            DataSourceID="SqlDataSource1" DataTextField="sname" DataValueField="rollNo">
        </asp:DropDownList>
        <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:connStr %>" SelectCommand="SELECT * FROM
[detail]"></asp:SqlDataSource><br /><br />
        <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Ok" /><br />
        <asp:Label ID="Label2" runat="server"></asp:Label>
    </div>
    </form>
</body>
</html>
```

Default1.aspx.cs:

```
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)
    {
```

```
    Label2.Text = "Roll No. of selected student is " + DropDownList1.SelectedValue;
  }
}
```

Slip No. 7

A] Create a simple web page to demonstrate all string operations.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:Label ID="Label1" runat="server" Text="Enter a string:"></asp:Label>
    <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
    <asp:Button ID="Button1" runat="server" Text="Length" onclick="Button1_Click" />
     <asp:Label ID="Label2" runat="server" Text=""></asp:Label><br />
    <asp:Button ID="Button2" runat="server" Text="To upper case" onclick="Button2_Click" />
    <asp:Label ID="Label3" runat="server" Text=""></asp:Label><br />
    <asp:Button ID="Button3" runat="server" Text="To lower case" onclick="Button3_Click" />
    <asp:Label ID="Label4" runat="server" Text=""></asp:Label><br />
    <asp:Button ID="Button4" runat="server" Text="Trim" onclick="Button4_Click" />
    <asp:Label ID="Label5" runat="server" Text=""></asp:Label><br />
    <asp:Button ID="Button5" runat="server" Text="Substring" onclick="Button5_Click" />
    <asp:TextBox ID="TextBox2" runat="server" title="Enter no of characters in
string"></asp:TextBox>   
    <asp:Label ID="Label6" runat="server" Text=""></asp:Label>
  </div>
  </form>
</body>
</html>
```

Default.aspx.cs:

```
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)
    {
        Label2.Text = TextBox1.Text.Length.ToString();
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        Label3.Text = TextBox1.Text.ToUpper();
    }
    protected void Button3_Click(object sender, EventArgs e)
    {
        Label4.Text = TextBox1.Text.ToLower();
    }
    protected void Button4_Click(object sender, EventArgs e)
    {
        Label5.Text = TextBox1.Text.Trim();
    }
    protected void Button5_Click(object sender, EventArgs e)
    {
        Label6.Text = TextBox1.Text.Substring(0, Int32.Parse(TextBox2.Text));
    }
}
```

B] Design an asp.net webpage with 2 groups of Radio Buttons, DropDownList, label and TextBox to perform the following operations: -

1. On click of Radio Buttons each at the same time from two different groups, change the font-size and font-face of the label's Text.
2. Also on the same webpage show that, on selecting a country name from the dropdown list, its respective country code gets displayed in a textbox.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:Label ID="Label1" runat="server" Text="Select font size:"></asp:Label> 
        <asp:RadioButtonList ID="RadioButtonList1" runat="server" AutoPostBack="True"
            onselectedindexchanged="RadioButtonList1_SelectedIndexChanged">
            <asp:ListItem>12</asp:ListItem>
            <asp:ListItem>14</asp:ListItem>
            <asp:ListItem>16</asp:ListItem>
            <asp:ListItem>18</asp:ListItem>
```

```
      </asp:RadioButtonList><br /><br />
      <asp:Label ID="Label2" runat="server" Text="Select font face:"></asp:Label> 
      <asp:RadioButtonList ID="RadioButtonList2" runat="server" AutoPostBack="True"
        onselectedindexchanged="RadioButtonList2_SelectedIndexChanged">
        <asp:ListItem>Times New Roman</asp:ListItem>
        <asp:ListItem>Calibri</asp:ListItem>
        <asp:ListItem>Comic Sans MS</asp:ListItem>
        <asp:ListItem>Algerian</asp:ListItem>
      </asp:RadioButtonList><br /><br />
      <asp:Label ID="Label3" runat="server" Text="Output"></asp:Label><br /><br />
      <asp:Label ID="Label4" runat="server" Text="Select state:"></asp:Label> 
      <asp:DropDownList ID="DropDownList1" runat="server">
        <asp:ListItem>Maharashtra</asp:ListItem>
        <asp:ListItem>Gujarat</asp:ListItem>
        <asp:ListItem>Jammu and Kashmir</asp:ListItem>
        <asp:ListItem>Andhra Pradesh</asp:ListItem>
      </asp:DropDownList><br /><br />
      <asp:Label ID="Label5" runat="server" Text="State Code:"></asp:Label> 
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Ok" />
    </div>
    </form>
</body>
</html>

Default.aspx.cs:
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 s = DropDownList1.SelectedValue;
        if(s.Equals("Maharashtra"))
            TextBox1.Text="27";
        if(s.Equals("Gujarat"))
            TextBox1.Text="24";
        if(s.Equals("Jammu and Kashmir"))
```

```
        TextBox1.Text="01";
      if(s.Equals("Andhra Pradesh"))
        TextBox1.Text="37";
  }
  protected void RadioButtonList1_SelectedIndexChanged(object sender, EventArgs e)
  {
    Label3.Font.Size = (FontUnit)Int32.Parse(RadioButtonList1.SelectedValue);
  }
  protected void RadioButtonList2_SelectedIndexChanged(object sender, EventArgs e)
  {
    Label3.Font.Name = RadioButtonList2.SelectedValue;
  }
}
```

Slip No. 8

A] Create a delegate del1. Create display1() and display2() static methods. Create a simple application to call these two methods by the through the delegate.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:Label ID="Label1" runat="server"></asp:Label><br /><br />
    <asp:Label ID="Label2" runat="server"></asp:Label>
  </div>
  </form>
</body>
</html>
```

Default.aspx.cs:

```
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
{
  public delegate String del1();
  public static String display1()
```

```
    {
        return "display1() called.";
    }
    public static String display2()
    {
        return "display2() called.";
    }
    protected void Page_Load(object sender, EventArgs e)
    {
        del1 d1 = new del1(display1);
        del1 d2 = new del1(display2);
        Label1.Text = d1();
        Label2.Text = d2();
    }
}
```

B] Create a simple web page to show how to write and read a cookie from a client's computer.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:Label ID="Label1" runat="server" Text="Enter name:"></asp:Label> 
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
        <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Ok" />
    </div>
    </form>
</body>
</html>
```

Default.aspx.cs:

```
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)
    {
        HttpCookie c = new HttpCookie("info");
        c.Value = TextBox1.Text;
        Response.SetCookie(c);
        Response.Redirect("Default2.aspx");
    }
}
```

Default2.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:Label ID="Label1" runat="server"></asp:Label>
    </div>
    </form>
</body>
</html>
```

Default2.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class Default2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        Label1.Text="Welcome "+Request.Cookies["info"].Value;
    }
}
```

Slip No. 10

B] Create a web application to demonstrate GridView paging and Creating own table format using GridView.

Ans. Default.aspx:

```
<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" AllowPaging="True"
        AutoGenerateColumns="False" Caption="Student Details" CellPadding="10"
        CellSpacing="2" DataSourceID="SqlDataSource1" ForeColor="#333333"
        GridLines="None" PageSize="5" Width="172px">
        <AlternatingRowStyle BackColor="White" ForeColor="#284775" />
        <Columns>
          <asp:BoundField DataField="sid" HeaderText="sid" SortExpression="sid" />
          <asp:BoundField DataField="sfname" HeaderText="sfname"
            SortExpression="sfname" />
          <asp:BoundField DataField="slname" HeaderText="slname"
            SortExpression="slname" />
        </Columns>
        <EditRowStyle BackColor="#999999" />
        <FooterStyle BackColor="#5D7B9D" Font-Bold="True" ForeColor="White" />
        <HeaderStyle BackColor="#5D7B9D" Font-Bold="True" ForeColor="White" />
        <PagerSettings FirstPageText="First" LastPageText="Last" NextPageText="Next"
          Position="TopAndBottom" PreviousPageText="Previous" />
        <PagerStyle BackColor="#284775" ForeColor="White" HorizontalAlign="Center" />
        <RowStyle BackColor="#F7F6F3" ForeColor="#333333" />
        <SelectedRowStyle BackColor="#E2DED6" Font-Bold="True" ForeColor="#333333" />
        <SortedAscendingCellStyle BackColor="#E9E7E2" />
        <SortedAscendingHeaderStyle BackColor="#506C8C" />
        <SortedDescendingCellStyle BackColor="#FFFDF8" />
        <SortedDescendingHeaderStyle BackColor="#6F8DAE" />
      </asp:GridView>
      <asp:SqlDataSource ID="SqlDataSource1" runat="server"
        ConnectionString="<%$ ConnectionStrings:ConnectionString %>"
        SelectCommand="SELECT * FROM [student]"></asp:SqlDataSource>
   </div>
   </form>
</body>
</html>
```

Slip No. 11

A] Create a web application to bind data in a multiline textbox by querying in another textbox.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server" Text="Enter query:"></asp:Label> 
      <asp:TextBox ID="TextBox1" runat="server" TextMode="MultiLine"></asp:TextBox>
      <br /><br />
      <asp:Label ID="Label2" runat="server" Text="Result:"></asp:Label> 
      <asp:TextBox ID="TextBox2" runat="server" TextMode="MultiLine"></asp:TextBox>
      <br /><br />
      <asp:Button ID="Button1" runat="server" Text="Ok" onclick="Button1_Click" />
   </div>
   </form>
</body>
</html>
```

Default.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;
using System.Data.SqlTypes;
using System.Configuration;
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 conn = ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
      SqlConnection c1 = new SqlConnection(conn);
      c1.Open();
      SqlCommand cmd = new SqlCommand(TextBox1.Text, c1);
      SqlDataReader r = cmd.ExecuteReader();
      TextBox2.Text = "";
      while (r.Read())
```

```
      {
         for (int i = 0; i < (r.FieldCount); i++)
         {
            TextBox2.Text += r[i].ToString() + " ";
         }
      }
      r.Close();
      c1.Close();
   }
}
```

Web.config:

```
<configuration>
  <connectionStrings>
    <add name="connStr" connectionString="Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\employee.mdf;Integrated
Security=True;User Instance=True"
      providerName="System.Data.SqlClient" />
  </connectionStrings>
```

B] Write a program to create a DLL to print a factorial of a number.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server" Text="Enter a number:"></asp:Label> 
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Factorial" />
      <asp:Label ID="Label2" runat="server"></asp:Label>
   </div>
   </form>
</body>
</html>
```

Default.aspx.cs:

```
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)
   {
      int n=Int32.Parse(TextBox1.Text);
      factorial.Class1 c1 = new factorial.Class1();
      Label2.Text=c1.fact(n).ToString();
   }
}
```

Factorial class library:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace factorial
{
   public class Class1
   {
      public int fact(int n)
      {
         int a = 1;
         for (int i = 1; i <= n; i++)
         {
            a *= i;
         }
         return a;
      }
   }
}
```

Slip No. 12

A] Write an Application to:

1. Generate Fibonacci series
2. Test for prime numbers
3. Test for vowels
4. Reverse a number

Ans. Default.aspx:

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

```
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server" Text="Enter a number:"></asp:Label> 
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button1" runat="server" Text="Fibonacci Series" onclick="Button1_Click"
      <asp:Label ID="Label2" runat="server"></asp:Label><br /><br />
      <asp:Label ID="Label3" runat="server" Text="Enter a number:"></asp:Label> 
      <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button2" runat="server" Text="Test for Prime" onclick="Button2_Click" />
      <asp:Label ID="Label4" runat="server"></asp:Label><br /><br />
      <asp:Label ID="Label5" runat="server" Text="Enter a character:"></asp:Label> 
      <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button3" runat="server" Text="Test for Vowels" onclick="Button3_Click"
      <asp:Label ID="Label6" runat="server"></asp:Label><br /><br />
      <asp:Label ID="Label7" runat="server" Text="Enter a number:"></asp:Label> 
      <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button4" runat="server" Text="Reverse" onclick="Button4_Click" />
      <asp:Label ID="Label8" runat="server"></asp:Label>
   </div>
   </form>
</body>
</html>

Default.aspx.cs:
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 Button4_Click(object sender, EventArgs e)
   {
      int n = Int32.Parse(TextBox4.Text);
      int r = 0, rem;
      while (n % 10 != 0)
      {
```

```
        rem = n % 10;
        r = rem + (r * 10);
        n = n / 10;
    }
    Label8.Text = "Reverse=" + r;
}
protected void Button3_Click(object sender, EventArgs e)
{
    String c = TextBox3.Text;
    switch (c)
    {
        case "A":
        case "a":
        case "E":
        case "e":
        case "O":
        case "o":
        case "I":
        case "i":
        case "U":
        case "u":
            Label6.Text = c + " is a vowel";
            break;
        default:
            Label6.Text = c + " is not a vowel";
            break;
    }
}
protected void Button2_Click(object sender, EventArgs e)
{
    int n = Int32.Parse(TextBox2.Text);
    int a = n;
    int p = 0;
    while (n != 0)
    {
        for (int i = 2; i < n; i++)
        {
            if (n % i == 0)
                p++;
        }
        n = n / 10;
    }
    if (p == 0)
        Label4.Text = a + " is a prime number";
```

```
        else
            Label4.Text = a + " is not a prime number";
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        int n = Int32.Parse(TextBox1.Text);
        int a = 0, b = 1;
        int c;
        Label2.Text = a + " " + b + " ";
        for (int i = 3; i <= n; i++)
        {
            c = a + b;
            Label2.Text = Label2.Text + c + " ";
            a = b;
            b = c;
        }
    }
}
```

B] Create a table with records and retrieve those using Disconnected data access in a Gridview.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<body>
    <form id="form1" runat="server">
    Data Displayed Using Disconnected Data Access
    <br />
    <asp:GridView ID="GridView1" runat="server">
    </asp:GridView>
    </form>
</body>
</html>
```

Default.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.Configuration;
using System.Data.SqlClient;
using System.Data;
public partial class _Default : System.Web.UI.Page
```

```
{
   protected void Page_Load(object sender, EventArgs e)
   {
      string c = ConfigurationManager.ConnectionStrings["conn"].ConnectionString;
      SqlConnection conn = new SqlConnection(c);
      SqlDataAdapter da = new SqlDataAdapter("select * from Info", conn);
      DataSet ds = new DataSet();
      da.Fill(ds);
      GridView1.DataSource = ds;
      GridView1.DataBind();
   }
}
```

Slip No. 13

A] Create a simple web page to demonstrate use of built in DivideByZeroException and IndexOutOfRangeException exceptions using textbox and label control.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server" Text="Enter 1st number:"></asp:Label>
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />
      <asp:Label ID="Label2" runat="server" Text="Enter 2nd number:"></asp:Label>
      <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="Divide" />
      <asp:Label ID="Label3" runat="server"></asp:Label><br /><br /><br />
      <asp:Label ID="Label4" runat="server" Text="Enter index:"></asp:Label>
      <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br /><br />
      <asp:Button ID="Button2" runat="server" onclick="Button2_Click" Text="Access Array
Element" />
      <asp:Label ID="Label5" runat="server"></asp:Label>
   </div>
   </form>
</body>
</html>
```

Default.aspx.cs:

```
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)
   {
      try
      {
         int n1 = Int32.Parse(TextBox1.Text);
         int n2 = Int32.Parse(TextBox2.Text);
         Label3.Text = "Division=" + (n1 / n2);
      }
      catch (DivideByZeroException ex)
      {
         Label3.Text = "Error: " + ex.Message;
      }
   }
   protected void Button2_Click(object sender, EventArgs e)
   {
      try
      {
         int[] a = { 1, 2, 3, 4, 5 };
         int n = Int32.Parse(TextBox3.Text);
         Label5.Text = a[n].ToString();
      }
      catch (IndexOutOfRangeException ex)
      {
         Label5.Text = "Error: " + ex.Message;
      }
   }
}
```

Slip No. 14

A] Display the no. of visitors on a given web page.

Ans. Global.asax:

```
void Application_Start(object sender, EventArgs e)
   {
      Application["NoofVisitors"] = 0;
   }
```

```
void Session_Start(object sender, EventArgs e)
  {
    Application.Lock();
    Application["NoOfVisitors"] = (int)Application["NoOfVisitors"] + 1;
    Application.UnLock();
  }
```

Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:Label ID="Label1" runat="server"></asp:Label>
  </div>
  </form>
</body>
</html>
```

Default.aspx.cs:

```
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)
  {
    Label1.Text = "No. of visitors=" + Application["NoofVisitors"];
  }
}
```

B] Create a registration form having text fields for accepting, Name, Age, Email, Address and Mobile number. Perform the following validations for the same:

1. All fields need to be filled compulsorily
2. Name should contain only alphabets and should not be more than 25 characters' long
3. Validate email and mobile number appropriately
4. Age should be between 18 and 32 only.

Include submit and cancel buttons. On click of submit button, open a new page and display all the information entered by the user and on click of cancel button, all text fields should be cleared.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:Label ID="Label1" runat="server" Text="Enter Name:"></asp:Label>
    <asp:TextBox ID="TextBox1" runat="server" MaxLength="25"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
      ErrorMessage="Cannot be empty"
ControlToValidate="TextBox1"></asp:RequiredFieldValidator>
    <asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"
      ErrorMessage="Can only have alphabets" ControlToValidate="TextBox1"
ValidationExpression="^[A-Za-z]+$"></asp:RegularExpressionValidator><br /><br />
    <asp:Label ID="Label2" runat="server" Text="Enter Age:"></asp:Label>
    <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
      ErrorMessage="Cannot be empty"
ControlToValidate="TextBox2"></asp:RequiredFieldValidator>
    <asp:RangeValidator ID="RangeValidator1" runat="server" MaximumValue="32"
MinimumValue="18"
      ErrorMessage="Has to be between 18 and 32"
ControlToValidate="TextBox2"></asp:RangeValidator><br /><br />
    <asp:Label ID="Label3" runat="server" Text="Enter Email:"></asp:Label>
    <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"
      ErrorMessage="Cannot be empty"
ControlToValidate="TextBox3"></asp:RequiredFieldValidator>
    <asp:Label ID="Label6" runat="server"></asp:Label><br /><br />
    <asp:Label ID="Label4" runat="server" Text="Enter Address:"></asp:Label>
    <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator4" runat="server"
      ErrorMessage="Cannot be empty"
ControlToValidate="TextBox4"></asp:RequiredFieldValidator><br /><br />
    <asp:Label ID="Label5" runat="server" Text="Enter Mobile Number:"></asp:Label>
    <asp:TextBox ID="TextBox5" runat="server" MaxLength="10"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server"
```

```
        ErrorMessage="Cannot be empty"
ControlToValidate="TextBox5"></asp:RequiredFieldValidator>
      <asp:RegularExpressionValidator ID="RegularExpressionValidator2" runat="server"
        ErrorMessage="Can have only numbers" ValidationExpression="^\d+$"
ControlToValidate="TextBox5"></asp:RegularExpressionValidator><br /><br />
      <asp:Button ID="Button1" runat="server" Text="Submit" onclick="Button1_Click" />
      <asp:Button ID="Button2" runat="server" onclick="Button2_Click" Text="Clear" />
   </div>
   </form>
</body>
</html>
```

Default.aspx.cs:

```
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 em = TextBox3.Text;
      String n = TextBox1.Text;
      int a = Int32.Parse(TextBox2.Text);
      String ad = TextBox4.Text;
      String m = TextBox5.Text;
      if (!em.Contains("@"))
         Label6.Text = "Invalid email address";
      else
      {
          Response.Redirect("Default2.aspx?name="+n+"&age="+a+"&email="+em+"&address="
+ad+"&mno="+m);
      }
   }
   protected void Button2_Click(object sender, EventArgs e)
   {
      TextBox1.Text = "";
      TextBox2.Text = "";
      TextBox3.Text = "";
      TextBox4.Text = "";
```

```
        TextBox5.Text = "";
    }
}
```

Default2.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
        <asp:Label ID="Label1" runat="server"></asp:Label>
    </div>
    </form>
</body>
</html>
```

Default2.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class Default2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        String n = Request.QueryString["name"];
        String a = Request.QueryString["age"];
        String em = Request.QueryString["email"];
        String ad = Request.QueryString["address"];
        String m = Request.QueryString["mno"];
        Label1.Text="Name="+n+"<br/>Age="+a+"<br/>Email
Address="+em+"<br/>Address="+ad+"<br/>Mobile Number="+m;
    }
}
```

Slip No. 15

A] Create a webpage with multiline textbox and two buttons, viz. saveContents and loadContents. On click of saveContents button, contents from the textbox should be retained

and on click of loadContents button, the previously saved contents should be displayed back on the textbox.

Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server" Text="Enter data:"></asp:Label>
      <asp:TextBox ID="TextBox1" runat="server" TextMode="MultiLine"></asp:TextBox><br />
      <asp:Button ID="Button1" runat="server" Text="saveContents" onclick="Button1_Click" />
      <asp:Button ID="Button2" runat="server" Text="loadContents" onclick="Button2_Click" />
   </div>
   </form>
</body>
</html>
```

Default.aspx.cs:

```
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
{
   static String d="";
   protected void Page_Load(object sender, EventArgs e)
   {   }
   protected void Button1_Click(object sender, EventArgs e)
   {
      d = TextBox1.Text;
      TextBox1.Text = "";
   }
   protected void Button2_Click(object sender, EventArgs e)
   {
      TextBox1.Text = d;
   }
}
```

B] Store 3 objects of the furniture class having 3 data members (name, manufacturer, and cost) in 3 session objects. Display a panel to include a listbox displaying the names of all three furniture objects, and a button named “MoreInformation”. On click of the button retrieve the selected object (from listbox) information and display it in a label.
Ans.

Slip No. 16

A] Write a program in C# to demonstrate multiple inheritance using interfaces.
Ans. Default.aspx:

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
      <asp:Label ID="Label1" runat="server"></asp:Label>
   </div>
   </form>
</body>
</html>
```

Default.aspx.cs:

```
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)
   {
      inheritance i = new inheritance();
      Label1.Text = i.disp1() +"<br/>"+ i.disp2();
   }
}
interface in1
{
   String disp1();
}
interface in2
{
```

```
   String disp2();
}
class inheritance : in1, in2
{
   public String disp1()
   {
      return "disp1() of interface 1";
   }
   public String disp2()
   {
      return "disp2() of interface 2";
   }
}
```