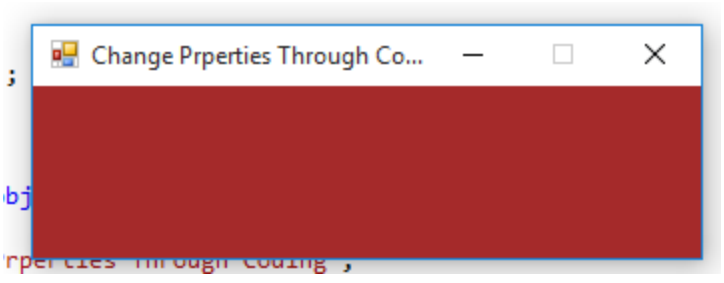
Practical 4. Write the following programs in C#.NET :-

1. **Create a window application for basic window form controls that will show the basic property and methods of all that controls.**

```
using System;
using System.Drawing;
using System.Windows.Forms;

namespace WindowsFormsApplication4
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object  sender, EventArgs e)
      {
         this.Text = "Change Prperties Through Coding";
         this.BackColor = Color.Brown;
         this.Size = new Size(350, 125);
         this.Location = new Point(300, 300);
         this.MaximizeBox = false;
      }
   }
}
```

OUTPUT:



2) Create a calculator using button, label, textbox control in .NET

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication9
{
   public partial class Form1 : Form
   {
      string opr;
      double oparand1, oparand2, result;
      //  double SqrRoot;



      public Form1()
      {
         InitializeComponent();
      }
      private void btn1_Click(object sender, EventArgs e)
      {
         display.Text = display.Text + "1";
      }
      private void btn2_Click(object sender, EventArgs e)
      {
         display.Text = display.Text + "2";
      }

      private void btn3_Click(object sender, EventArgs e)
      {
         display.Text = display.Text + "3";
      }
```

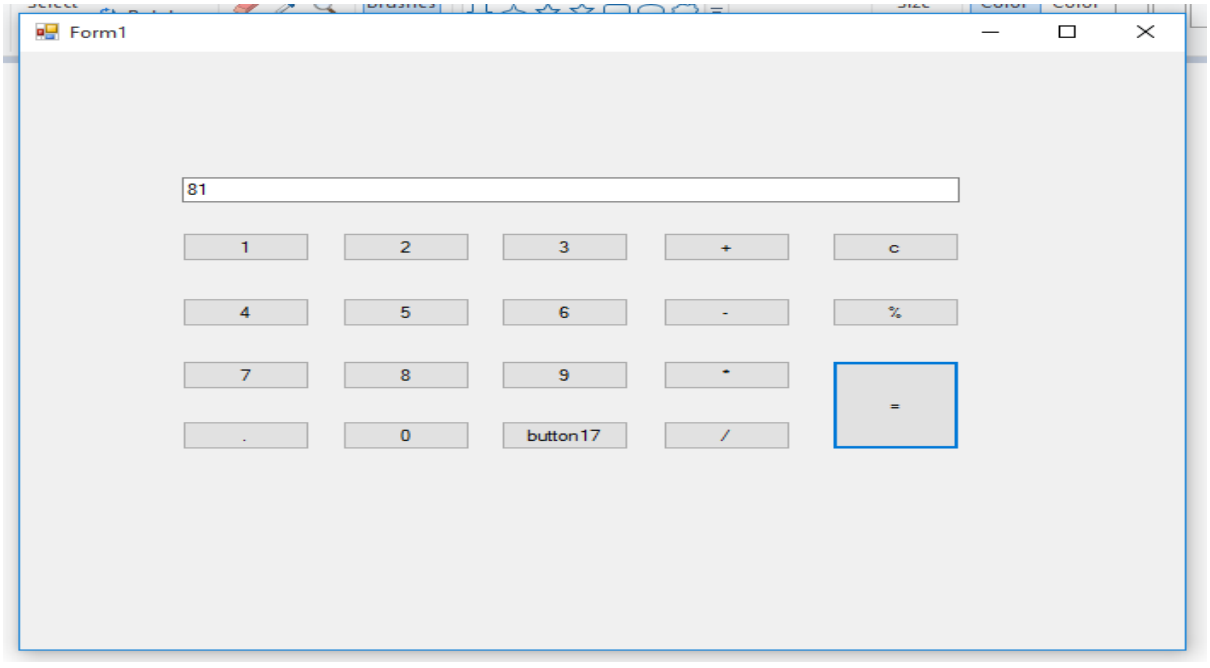
```
private void btn4_Click(object sender, EventArgs e)
{
   display.Text = display.Text + "4";
}

private void btn5_Click(object sender, EventArgs e)
{
   display.Text = display.Text + "5";       }

private void btn6_Click(object sender, EventArgs e)
{
   display.Text = display.Text + "6";
}

private void btn7_Click(object sender, EventArgs e)
{
   display.Text = display.Text + "7";
}

private void btn8_Click(object sender, EventArgs e)
{
   display.Text = display.Text + "8";
}

private void btn9_Click(object sender, EventArgs e)
{
   display.Text = display.Text + "9";
}

private void btn0_Click(object sender, EventArgs e)
{
   display.Text = display.Text + "0";
}

private void btnc_Click(object sender, EventArgs e)
{
   display.Clear();
```

```
        }

        private void btnminus_Click(object sender, EventArgs e)
        {
           oparand1 = Convert.ToDouble(display.Text);
           opr = "-";
           display.Clear();      }

        private void btnmul_Click(object sender, EventArgs e)
        {
           oparand1 = Convert.ToDouble(display.Text);
           opr = "*";
           display.Clear();
        }

        private void btndiv_Click(object sender, EventArgs e)
        {
           oparand1 = Convert.ToDouble(display.Text);
           opr = "/";
           display.Clear();
        }

        private void btnprod_Click(object sender, EventArgs e)
        {
           oparand1 = Convert.ToDouble(display.Text);
           opr = "%";

    display.Clear();
        }

        private void btndot_Click(object sender, EventArgs e)
        {
           if (display.Text.Contains("."))
           {
              display.Text = display.Text;
           }
           else
           {
```

```
            display.Text = display.Text + ".";
        }
    }
private void btnplusorminus_Click(object sender, EventArgs e)
    {
        if (display.Text.Contains("-"))
        {
            display.Text = display.Text.Remove(0, 1);
        }
        else
        {
            display.Text = "-" + display.Text;
        }      }
    private void btnequals_Click(object sender, EventArgs e)
    {
        oparand2 = Convert.ToDouble(display.Text);
        switch (opr)
        {
            case "+":
                result = oparand1 + oparand2;
                display.Text = Convert.ToString(result);
                break;
            case "-":
                result = oparand1 - oparand2;
                display.Text = Convert.ToString(result);
                break;
            case "*":
                result = oparand1 * oparand2;
                display.Text = Convert.ToString(result);
                break;
            case "/":
                if (oparand2 == 0)
                {
                    display.Text = "0.0";
                    break;
                }
                else
                {
```

```
                result = oparand1  / oparand2;
                display.Text = Convert.ToString(result);
                break;
              }
            case "%":
              result = oparand1 % oparand2;
              display.Text = Convert.ToString(result);
              break;
          }         }
        private void btnplus_Click(object sender, EventArgs e)
        {
          oparand1  = Convert.ToDouble(display.Text);
          opr = "+"
          display.Clear();       }
        private void Form1_Load(object  sender, EventArgs e)
        {
        }
      }
}
```

OUTPUT:



Practical 5.

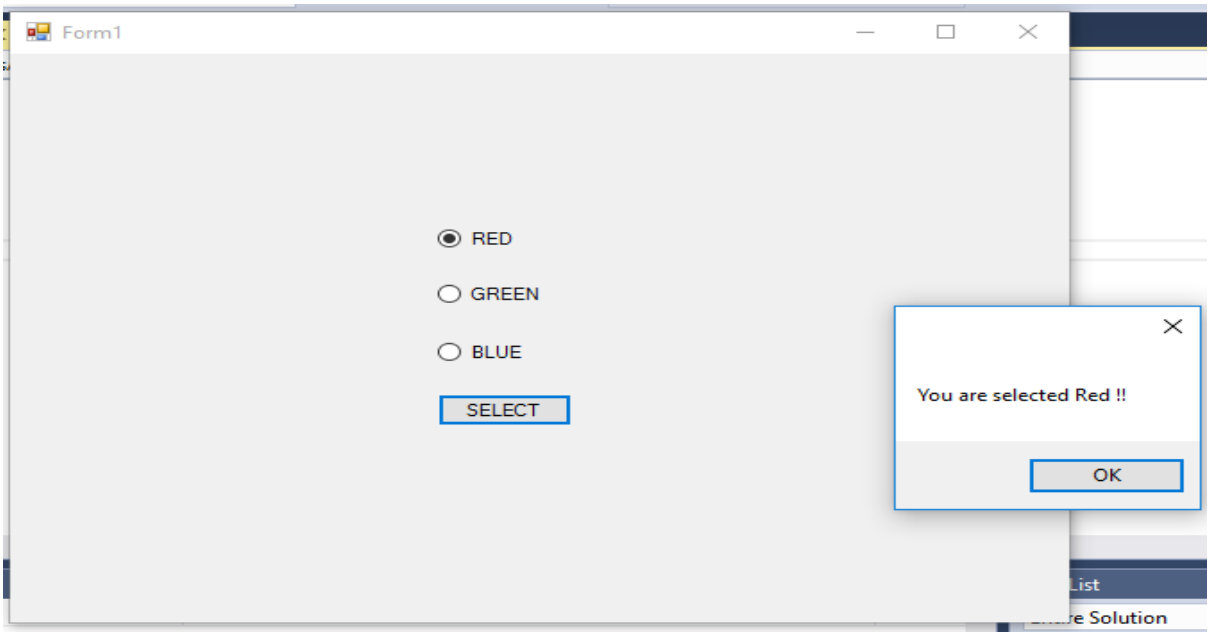
1. Write a program to demonstrate use of radio button, checkbox, list box, combo box and list view.

Radio Button

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication7
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object sender, EventArgs e)
      {
         radioButton1.Checked = true;
      }

      private void button1_Click(object sender, EventArgs e)
      {
         if (radioButton1.Checked == true)
         {
            MessageBox.Show("You are selected Red !! ");
            return;
         }
         else if (radioButton2.Checked == true)
```

```
            {
               MessageBox.Show("You are selected Blue !! ");
               return;
            }
            else
            {
               MessageBox.Show("You are selected Green !! ");
               return;
            }
         }
      }
   }
```

OUTPUT:



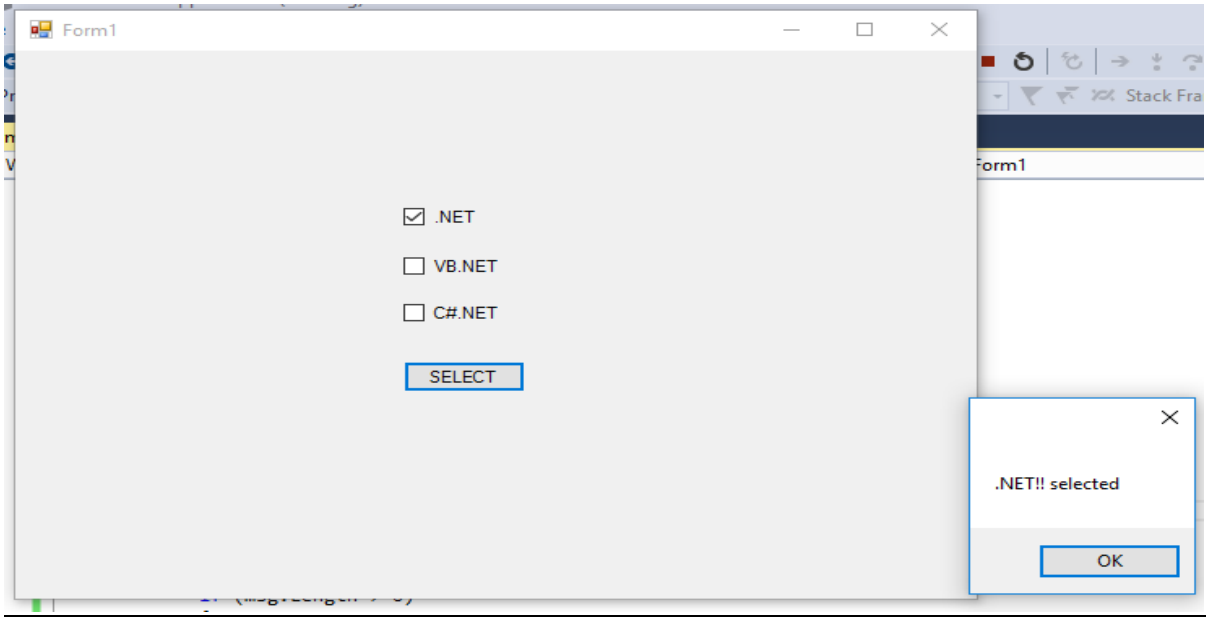
CheckBox Control

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
```

```
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication7
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object  sender, EventArgs e)
      {

      }

      private void button1_Click(object sender, EventArgs e)
      {
         string msg = "";

         if (checkBox1.Checked == true)
         {
            msg = " .NET!!";
         }

         if (checkBox2.Checked == true)
         {
            msg = msg + "   VB.NET !!";
         }

         if (checkBox3.Checked == true)
         {
            msg = msg + "    C#NET !!";
         }
```

```
            if (msg.Length > 0)
            {
               MessageBox.Show(msg + " selected ");
            }
            else
            {
               MessageBox.Show("No checkbox selected");
            }

            checkBox1.ThreeState  = true;
         }
      }
   }
```

OUTPUT:

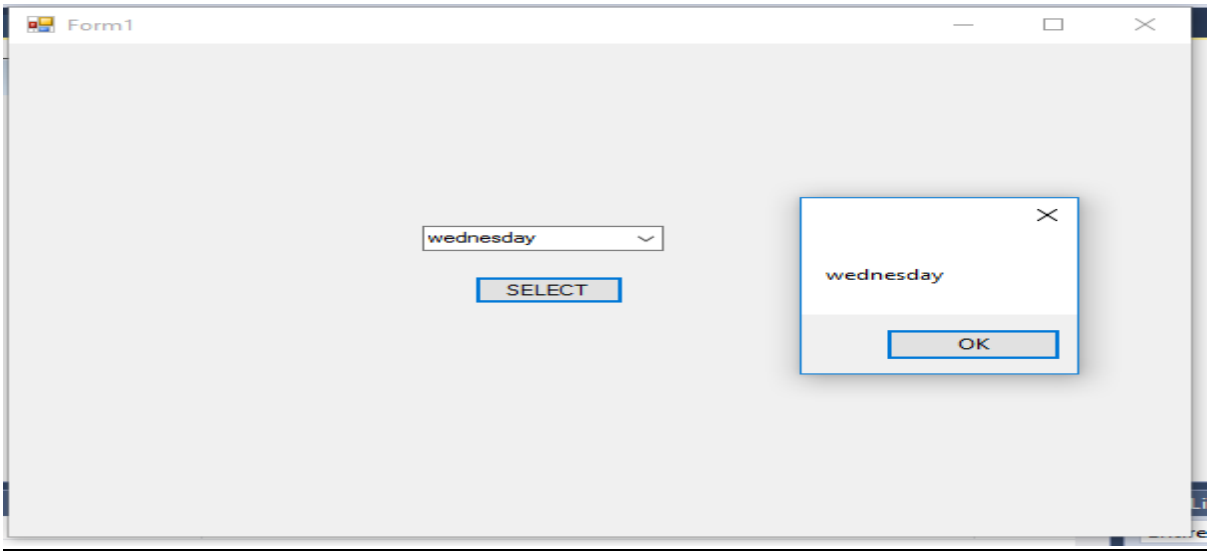


ComboBox Control

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
```

```
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication7
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object  sender, EventArgs e)
      {
         comboBox1.Items.Add("Sunday");
         comboBox1.Items.Add("Monday");
         comboBox1.Items.Add("Tuesday");
         comboBox1.Items.Add("wednesday");
         comboBox1.Items.Add("Thursday");
         comboBox1.Items.Add("Friday");
         comboBox1.Items.Add("Saturday");
         comboBox1.SelectedIndex  = comboBox1.FindStringExact("Sunday");

      }

      private void button1_Click(object sender, EventArgs e)
      {
         string var;
         var = comboBox1.Text;
         MessageBox.Show(var);
      }
   }
```

OUTPUT:



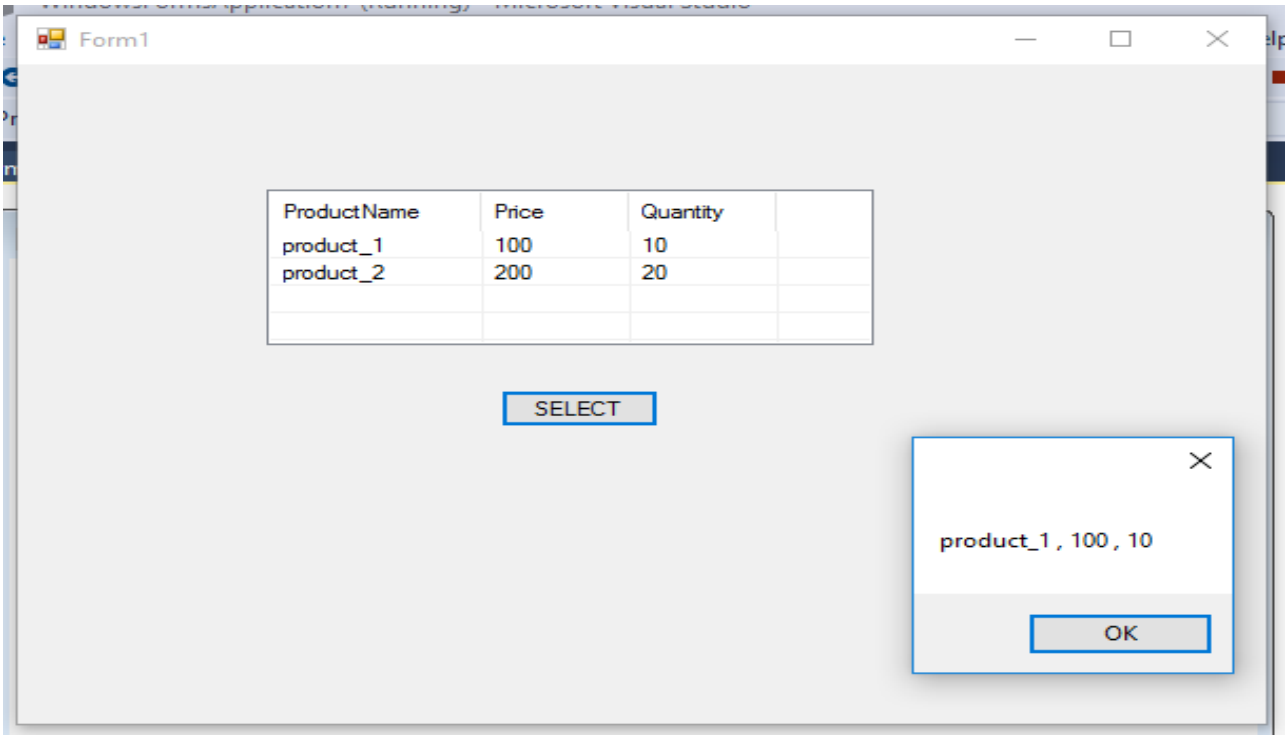
ListView Control

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication7
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object  sender, EventArgs e)
      {
```

```
    listView1.View = View.Details;
    listView1.GridLines = true;
    listView1.FullRowSelect = true;

    //Add column header
    listView1.Columns.Add("ProductName",  100);
    listView1.Columns.Add("Price", 70);
    listView1.Columns.Add("Quantity", 70);

    //Add items in the listview
    string[] arr = new string[4];
    ListViewItem itm;

    //Add first item
    arr[0] = "product_1";
    arr[1] = "100";
    arr[2] = "10";
    itm = new ListViewItem(arr);
    listView1.Items.Add(itm);

    //Add second item
    arr[0] = "product_2";
    arr[1] = "200";
    arr[2] = "20";
    itm = new ListViewItem(arr);
    listView1.Items.Add(itm);

}

private void button1_Click(object sender, EventArgs e)
{
    string productName  = null;
    string price = null;
    string quantity = null;

    productName  = listView1.SelectedItems[0].SubItems[0].Text;
    price = listView1.SelectedItems[0].SubItems[1].Text;
    quantity = listView1.SelectedItems[0].SubItems[2].Text;
```

```
            MessageBox.Show(productName  + " , " + price + " , " + quantity);
        }
    }
}
```

OUTPUT:



2. Write a program to demonstrate use of inheritance of a form in another form

form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication10
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void button1_Click(object sender, EventArgs e)
      {
         MessageBox.Show("base form is show");
      }

      private void Form1_Load(object  sender, EventArgs e)
      {

      }
   }
}
```

form2.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

namespace WindowsFormsApplication10
{
   public partial class Form2 : WindowsFormsApplication10.Form1
   {
      public Form2()
      {
         InitializeComponent();
      }


      private void button1_Click_1(object sender, EventArgs e)
      {
         MessageBox.Show("subform form is show");
      }
   }
}
```

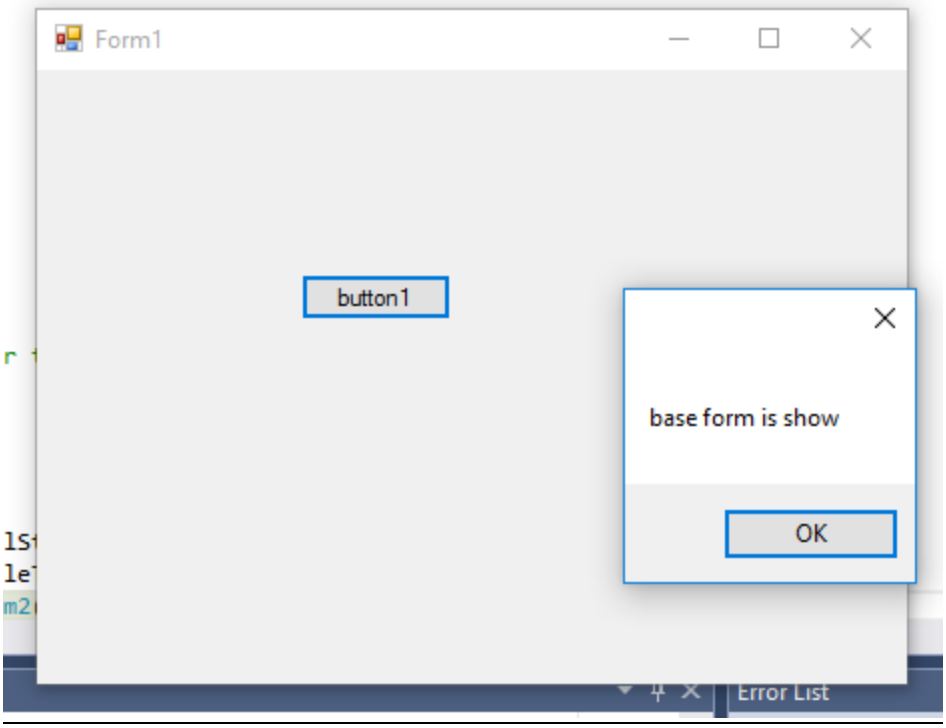
program.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication10
{
```

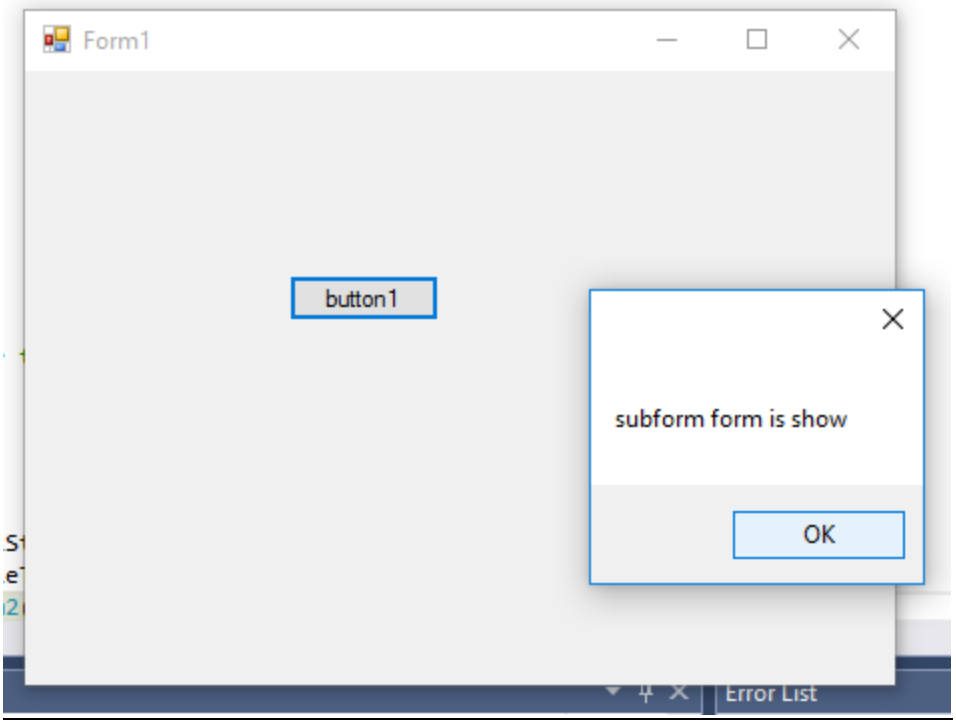
```
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form2());
        }
    }
}
```

OUTPUT:

BASE FORM



DERIVED FORM



3. Write a program to demonstrate use of MDI form

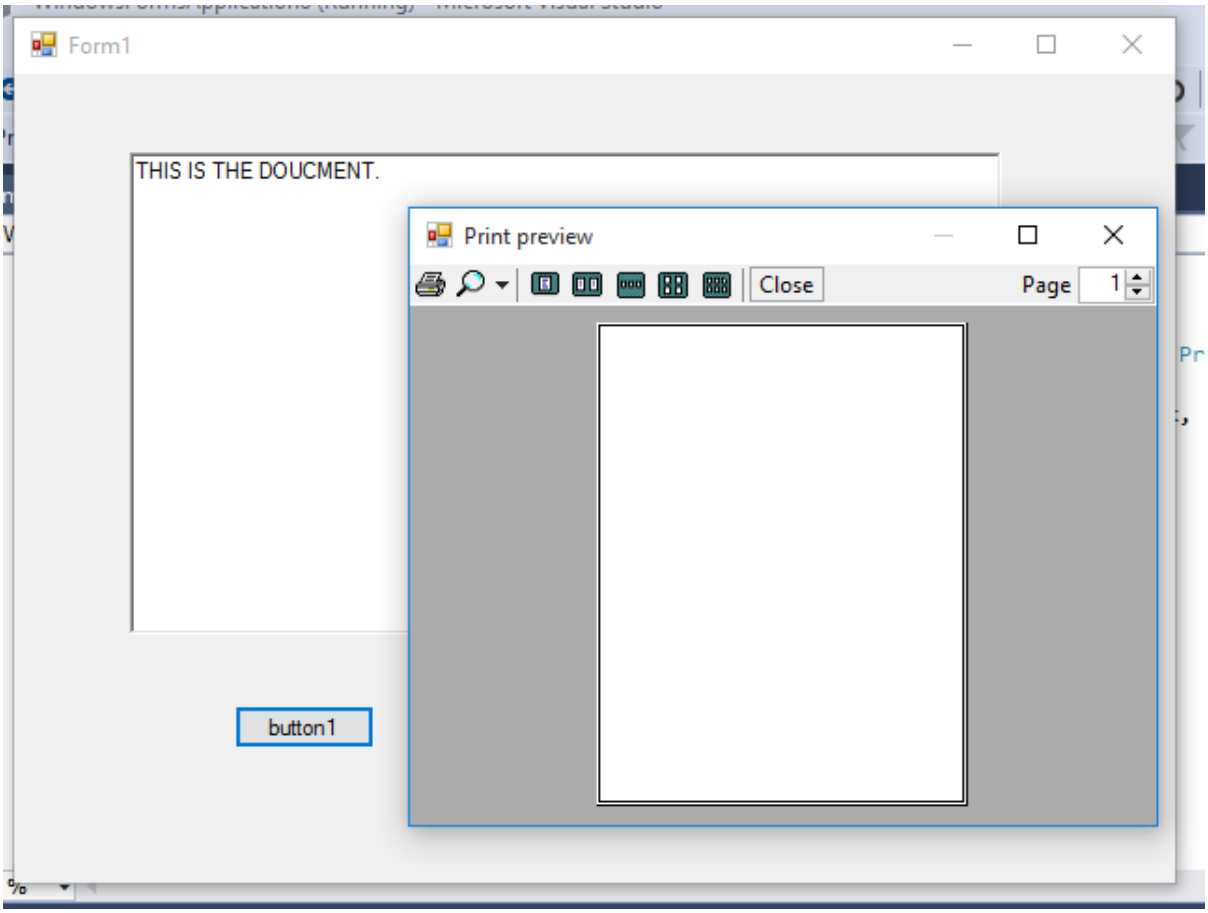
```
using System;
using System.Drawing;
using System.Windows.Forms;

namespace WindowsFormsApplication1
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void menu1ToolStripMenuItem_Click(object  sender, EventArgs e)
      {
         MessageBox.Show("You are selected MenuItem_1");
      }
   }
}
```

4. Write a program to demonstrate use of print dialog (print document, print preview control and print setup)

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication8
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }
      private void printDocument1_PrintPage(object sender,
System.Drawing.Printing.PrintPageEventArgs e)
      {
         e.Graphics.DrawString(richTextBox1.Text, richTextBox1.Font, Brushes.Black, 100,
20);
         e.Graphics.PageUnit = GraphicsUnit.Inch;
      }

      private void button1_Click_1(object sender, EventArgs e)
      {
         printPreviewDialog1.Document = printDocument1;

         // Show PrintPreview Dialog
         printPreviewDialog1.ShowDialog();

      }
```

```
        private void button2_Click(object sender, EventArgs e)
        {
            //PrintDialog associate with PrintDocument;
            printDialog1.Document = printDocument1;

            if (printDialog1.ShowDialog() == DialogResult.OK)
            {
                printDocument1.Print();
            }

        }
    }
}
```

OUTPUT:

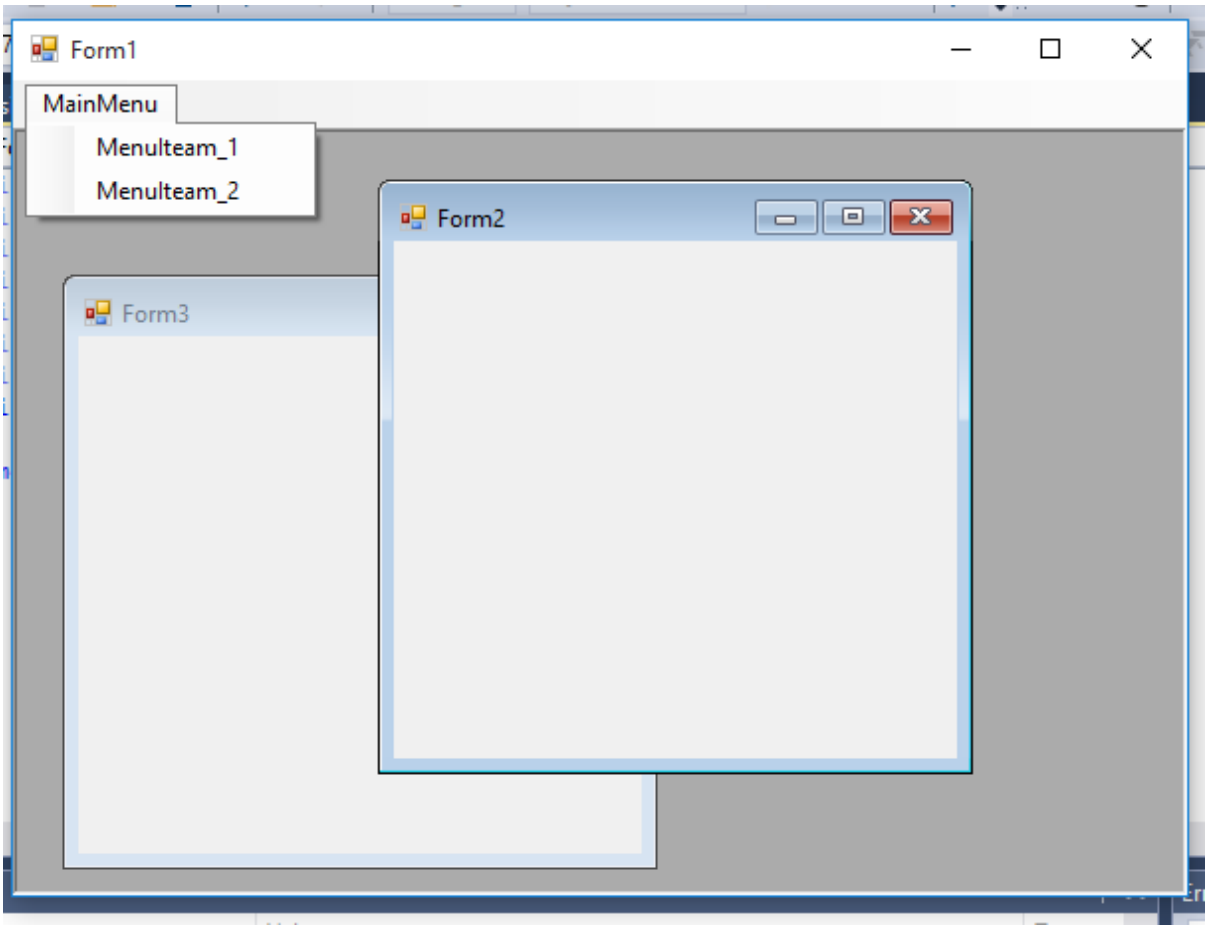


5. Create Menu Strip in Window form Application

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication7
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object  sender, EventArgs e)
      {
         IsMdiContainer = true;

      }

      private void menuStripToolStripMenuItem_Click(object  sender, EventArgs e)
      {
         Form2  frm2 = new Form2();
         frm2.Show();
         frm2.MdiParent  = this;
      }

      private void menuIteam2ToolStripMenuItem_Click(object  sender, EventArgs e)
      {
         Form3  frm3 = new Form3();
```

```
            frm3.Show();
            frm3.MdiParent  = this;
        }
    }
}
```

OUTPUT:



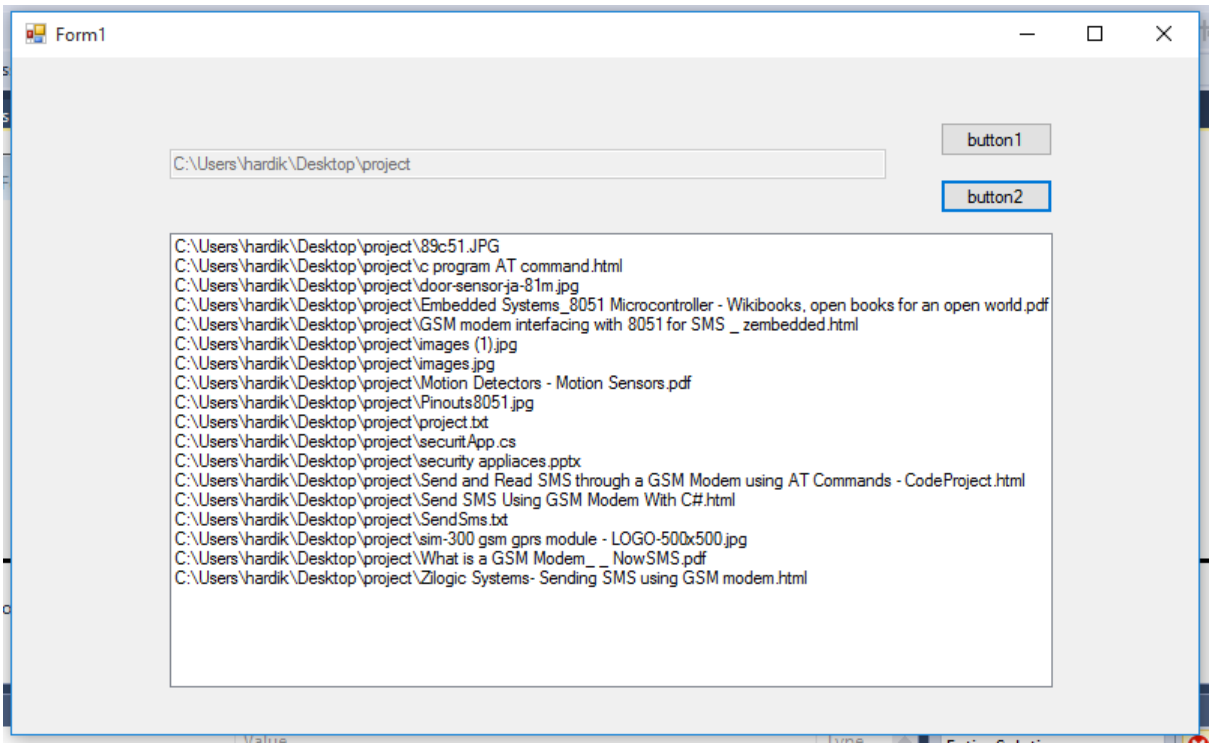
Practical 6. Create a window application for basic Dialog controls that will show the basic property and methods of all that controls.

1. **FolderBrowserDialog**

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication12
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object sender, EventArgs e)
      {

      }

      private void button1_Click(object sender, EventArgs e)
      {
         FolderBrowserDialog folderBrowserDlg = new FolderBrowserDialog();
         // A new folder button will display in FolderBrowserDialog.
         folderBrowserDlg.ShowNewFolderButton = true;
         //Show FolderBrowserDialog
         DialogResult dlgResult = folderBrowserDlg.ShowDialog();
         if (dlgResult.Equals(DialogResult.OK))
         {
            //Show selected folder path in textbox1.
```

```
            textBox1.Text = folderBrowserDlg.SelectedPath;
            //Browsing start from root folder.
            Environment.SpecialFolder  rootFolder = folderBrowserDlg.RootFolder;
          }
        }

        private void button2_Click(object sender, EventArgs e)
        {
          if (!textBox1.Text.Equals(String.Empty))
          {
            if (System.IO.Directory.GetFiles(textBox1.Text).Length > 0)
            {
              foreach (string file in System.IO.Directory.GetFiles(textBox1.Text))
              {
                //Add file in ListBox.
                listBox1.Items.Add(file);
              }
            }
            else
            {
              // listBox1.Items.Add(String.Format("No  files Found at location: { 0}",
textBox1.Text));
            }
          }
        }
    }
}
```

OUTPUT:

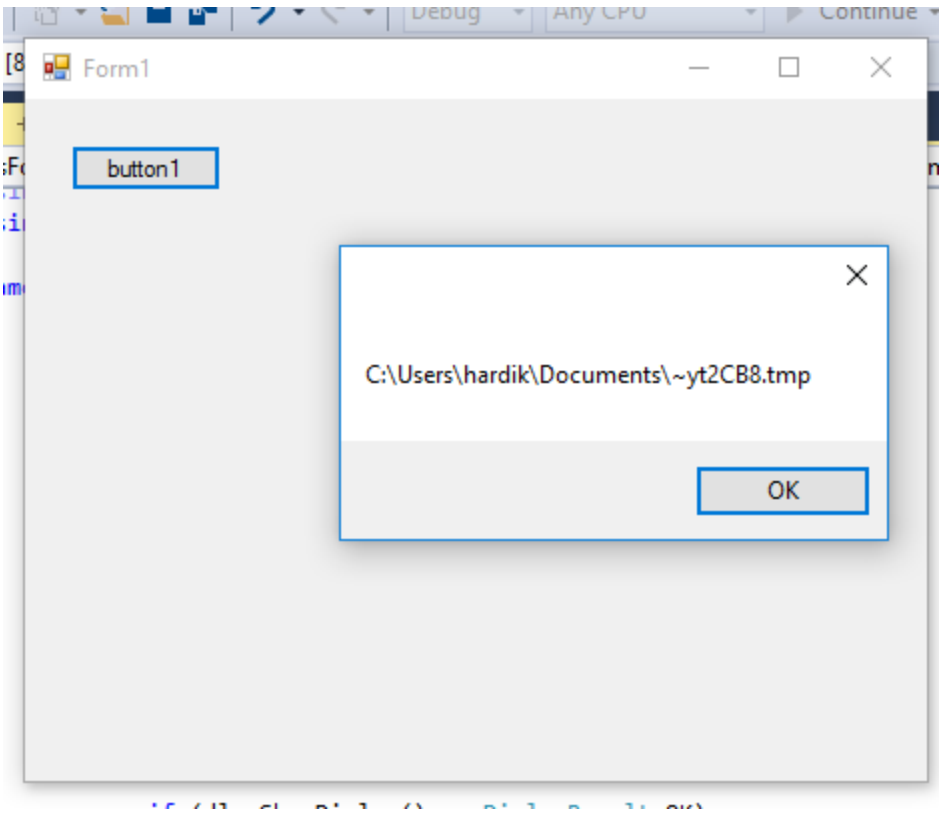


2. **OpenFileDialog**

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication11
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }
```

```
        private void button1_Click(object sender, EventArgs e)
        {
            OpenFileDialog dlg = new OpenFileDialog();
            dlg.ShowDialog();

            if (dlg.ShowDialog() == DialogResult.OK)
            {
                string fileName;
                fileName = dlg.FileName;
                MessageBox.Show(fileName);
            }
        }
    }
}
```

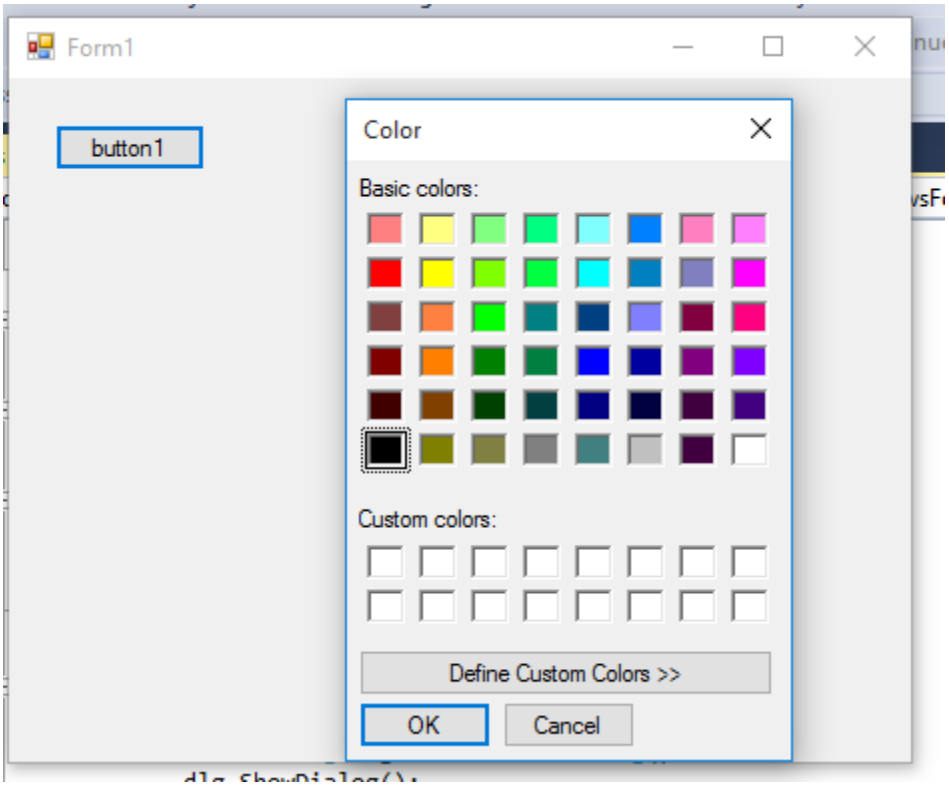
OUTPUT:



3. **ColorDialog**

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication11
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void button1_Click(object sender, EventArgs e)
      {
         ColorDialog dlg = new ColorDialog();
         dlg.ShowDialog();

         if (dlg.ShowDialog() == DialogResult.OK)
         {
            string str = null;
            str = dlg.Color.Name;
            MessageBox.Show(str);
         }
      }
   }
}
```

OUTPUT:

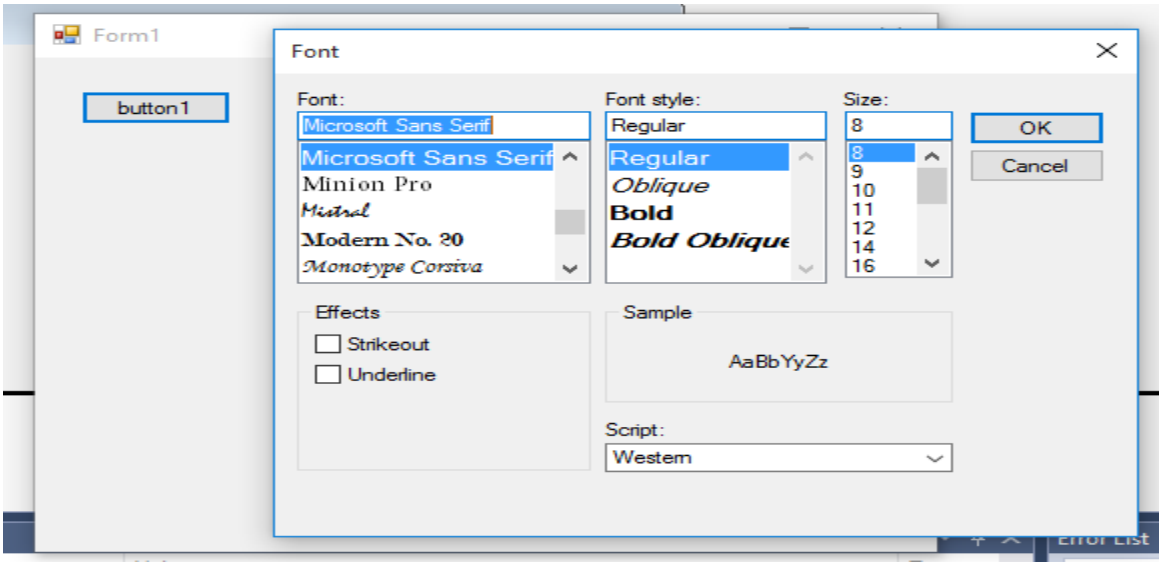


4. **FontDilalog**

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApplication11
{
```

```
public partial class Form1 : Form
{
    public Form1()
    {
        InitializeComponent();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        FontDialog dlg = new FontDialog();
        dlg.ShowDialog();

        if (dlg.ShowDialog() == DialogResult.OK)
        {
            string fontName;
            float fontSize;
            fontName = dlg.Font.Name;
            fontSize = dlg.Font.Size;
            MessageBox.Show(fontName + "    " + fontSize);
        }
    }
  }
}
```

OUTPUT:

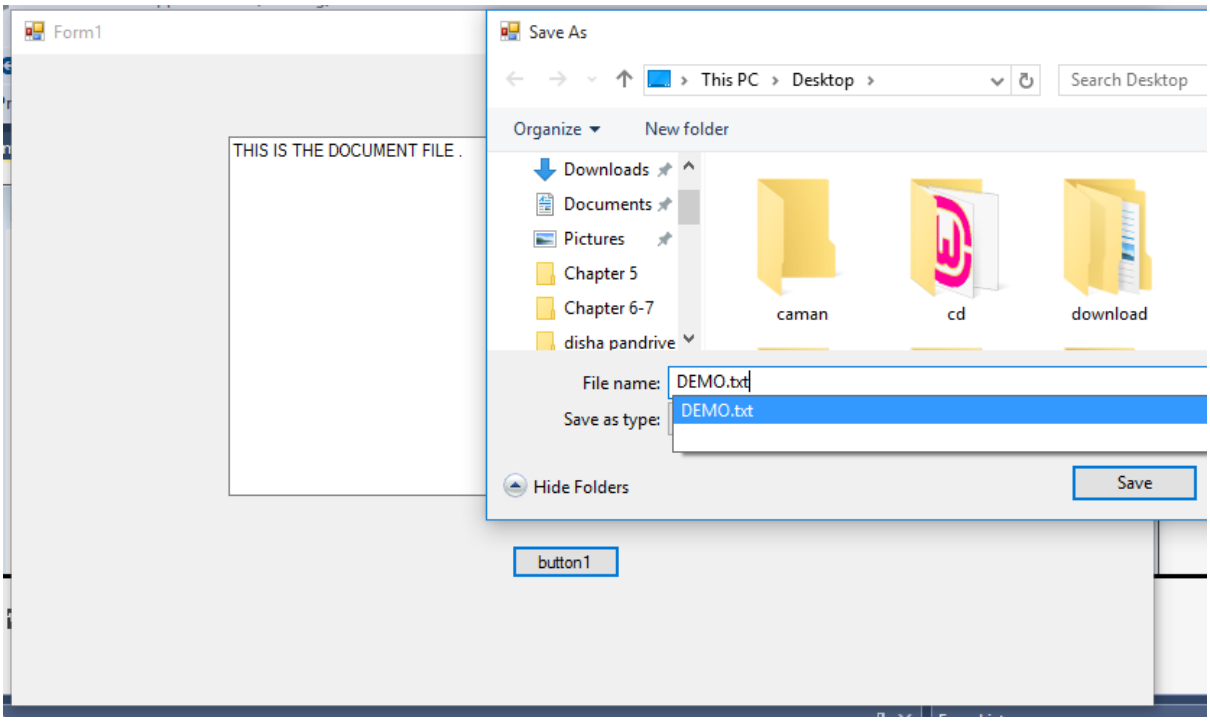


5. **SaveFileDialog Control**

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.IO;

namespace WindowsFormsApplication12
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void Form1_Load(object sender, EventArgs e)
      {

      }

      private void button1_Click(object sender, EventArgs e)
      {
           saveFileDialog1.Filter = "Text File|.txt";
        saveFileDialog1.FileName = String.Empty;
        saveFileDialog1.DefaultExt = ".txt";
       DialogResult result = saveFileDialog1.ShowDialog();
           if (result == DialogResult.OK)
        {
           //Create a file stream using the file name
           FileStream fs = new FileStream(saveFileDialog1.FileName, FileMode.Create);
```

```
            StreamWriter writer = new StreamWriter(fs);
            writer.Write(textBox1.Text);
            writer.Close();
    }
  }
}
```

OUTPUT:



Practical 7. ADO.NET :-

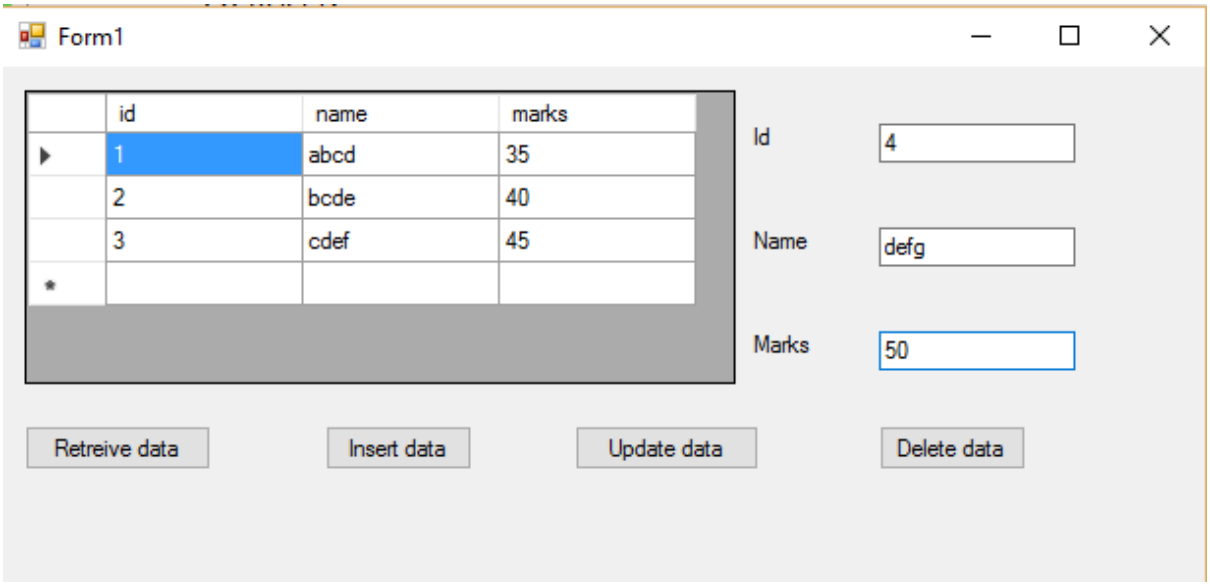
Create a window application for connection with sql server and perform basic operations on database. (Insert , Update ,Delete)

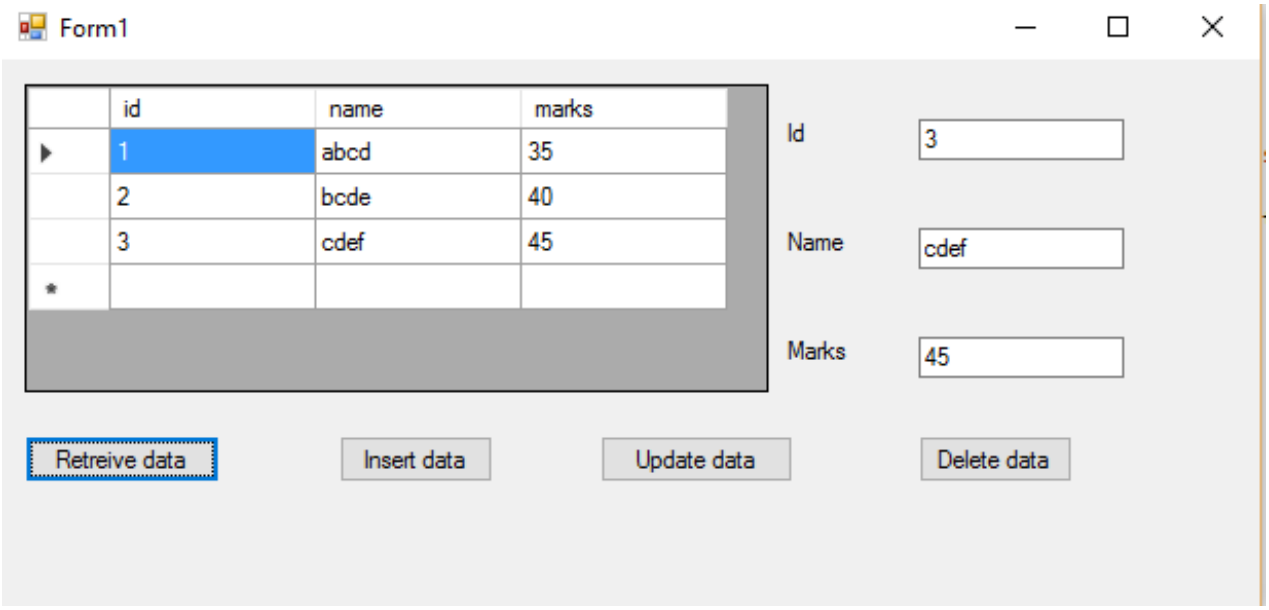
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;


namespace WindowsFormsApplication3
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }
      SqlConnection c = new SqlConnection();

       private void button1_Click(object sender, EventArgs e)
      {
          c.ConnectionString = "DataSource=.\\SQLEXPRESS;AttachDbFilename= c:\\users\\smit
          parikh\\documents\\visual studio 2010\\Projects\\
          WindowsFormsApplication3\\WindowsFormsApplication3\\Database1.mdf;Integrated
          Security=True;User Instance=True";
         c.Open();
         SqlDataAdapter a = new SqlDataAdapter("select * from student", c);
         DataTable t = new DataTable();
         a.Fill(t);
         dataGridView1.DataSource = t;
         c.Close();
      }


      private void button2_Click(object sender, EventArgs e)
      {
```

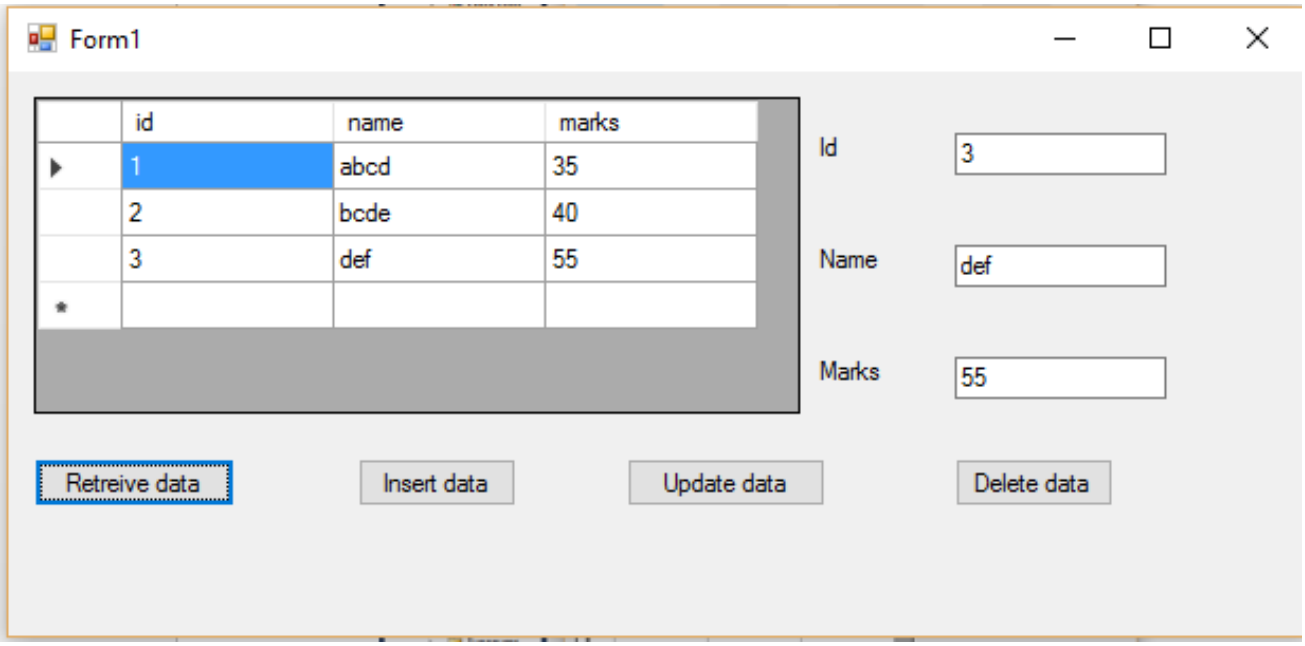
```
    c.ConnectionString = "DataSource=.\\SQLEXPRESS;AttachDbFilename= c:\\users\\smit
    parikh\\documents\\visual studio 2010\\Projects\\
    WindowsFormsApplication3\\WindowsFormsApplication3\\Database1.mdf;Integrated
    Security=True;User Instance=True";

   c.Open();
    SqlDataAdapter a = new SqlDataAdapter("insert into student
    values("+textBox1.Text+",'"+textBox2.Text+"',"+textBox3.Text+")", c);
   DataTable t = new DataTable();
   a.Fill(t);
   dataGridView1.DataSource = t;
   c.Close();
}

private void button3_Click(object sender, EventArgs e)
{
    c.ConnectionString = "DataSource=.\\SQLEXPRESS;AttachDbFilename= c:\\users\\smit
    parikh\\documents\\visual studio 2010\\Projects\\
    WindowsFormsApplication3\\WindowsFormsApplication3\\Database1.mdf;Integrated
    Security=True;User Instance=True";
   c.Open();
     SqlDataAdapter a = new SqlDataAdapter("update student set id="+textBox1.Text+",
    name='"+textBox2.Text+"',marks="+textBox3.Text+" where id="+textBox1.Text, c);
   DataTable t = new DataTable();
   a.Fill(t);
   dataGridView1.DataSource = t;
   c.Close();
}

private void button4_Click(object sender, EventArgs e)
{
    c.ConnectionString = "DataSource=.\\SQLEXPRESS;AttachDbFilename= c:\\users\\smit
    parikh\\documents\\visual studio 2010\\Projects\\
    WindowsFormsApplication3\\WindowsFormsApplication3\\Database1.mdf;Integrated
    Security=True;User Instance=True";

    c.Open();
     SqlDataAdapter a = new SqlDataAdapter("delete from student where id="+
    textBox1.Text, c);
   DataTable t = new DataTable();
   a.Fill(t);
   dataGridView1.DataSource = t;
   c.Close();
}
```

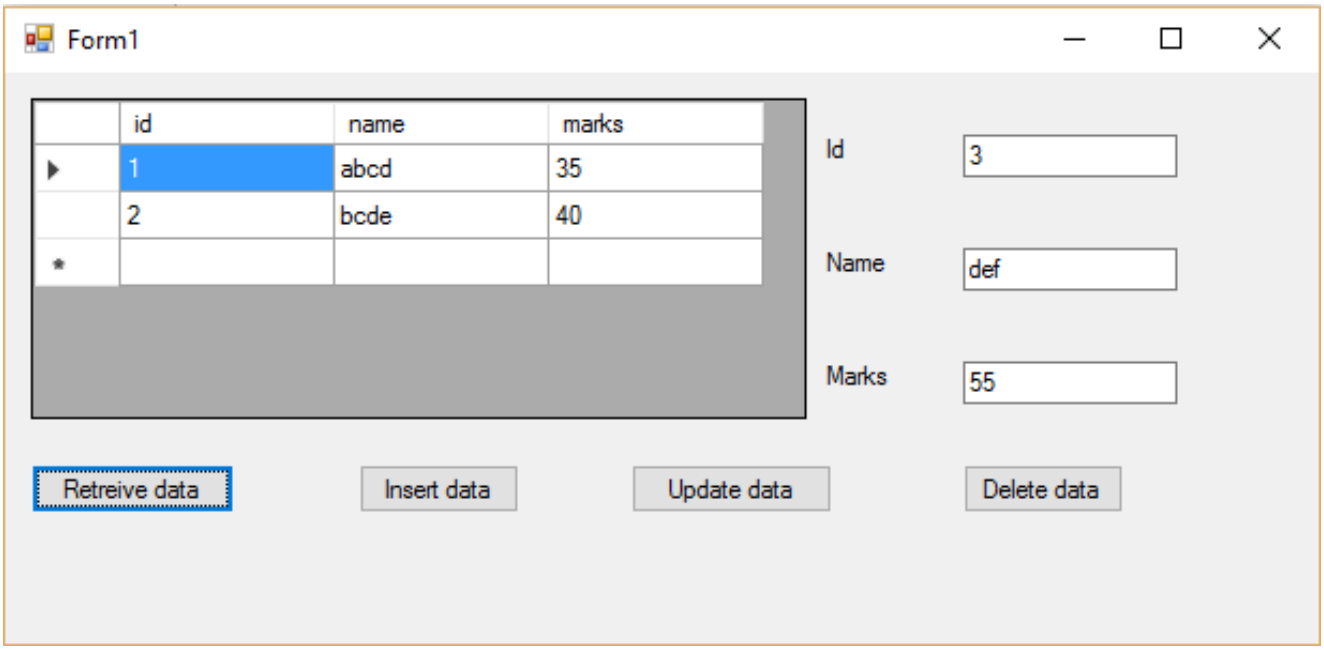
```
    }
}
```

OUTPUT


Form1
id
name
marks
1
abcd
35
2
bcde
40
3
cdef
45
Id
4
Name
defg
Marks
50
Retreive data
Insert data
Update data
Delete data


Form1
id
name
marks
1
abcd
35
2
bcde
40
3
cdef
45
Id
3
Name
cdef
Marks
45
Retreive data
Insert data
Update data
Delete data


Form1
id
name
marks
1
abcd
35
2
bcde
40
3
def
55
Id
3
Name
def
Marks
55
Retreive data
Insert data
Update data
Delete data


Form1
id
name
marks
1
abcd
35
2
bcde
40
Id
3
Name
def
Marks
55
Retreive data
Insert data
Update data
Delete data

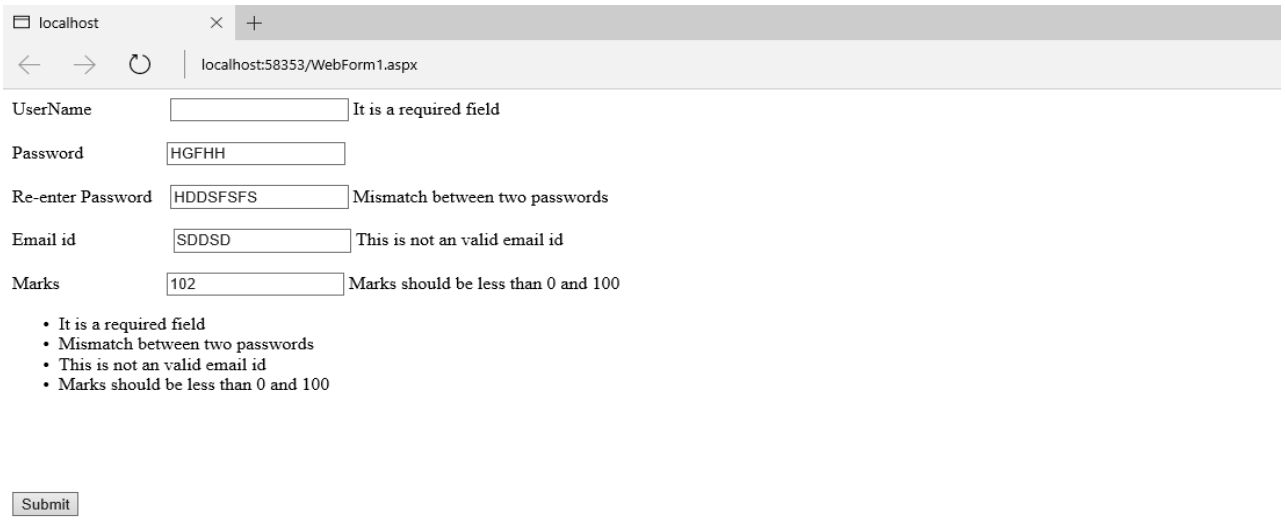
Practical 8. Write the programs in ASP.NET :-

1) Write the programs in ASP.NET :-

```
<%@ Page Language="C#" AutoEventWireup="true"  CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication2.WebForm1"  %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

UserName           &
nbsp;    

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
  <asp:RequiredFieldValidator ID="RequiredFieldValidator1"  runat="server"
    ControlToValidate="TextBox1" ErrorMessage="It is a required
field"></asp:RequiredFieldValidator>
  <br />
  <br />

Password           &n
bsp;     

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

  Re-enter Password   
  <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
  <asp:CompareValidator ID="CompareValidator1" runat="server"
    ControlToCompare="TextBox2"  ControlToValidate="TextBox3"
    ErrorMessage="Mismatch between two passwords"></asp:CompareValidator>
  <br />
  <br />


Emailid           &nbs
p;        
```

```
    <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
    <asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"
      ControlToValidate="TextBox4" ErrorMessage="This is not an valid email id"
      ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-
.]\w+)*"></asp:RegularExpressionValidator>
    <br />
    <br />

Marks            
;          

<asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
    <asp:RangeValidator ID="RangeValidator1" runat="server"
      ControlToValidate="TextBox5" ErrorMessage="Marks should be less than 0 and 100"
      MaximumValue="100" MinimumValue="0" Type="Integer"></asp:RangeValidator>
    <asp:ValidationSummary ID="ValidationSummary1" runat="server" />
    <br />
    <br />
    <br />
    <br />

    <asp:Button ID="Button1" runat="server" Text="Submit" />
    </form>
</body>
</html>
```

OUTPUT:-


localhost
localhost:58353/WebForm1.aspx
UserName
It is a required field
Password
HGFHH
Re-enter Password
HDDSFSFS
Mismatch between two passwords
Email id
SDDSD
This is not an valid email id
Marks
102
Marks should be less than 0 and 100
It is a required field
Mismatch between two passwords
This is not an valid email id
Marks should be less than 0 and 100
Submit

2) Write a program demonstrating login control

Webform2.aspx

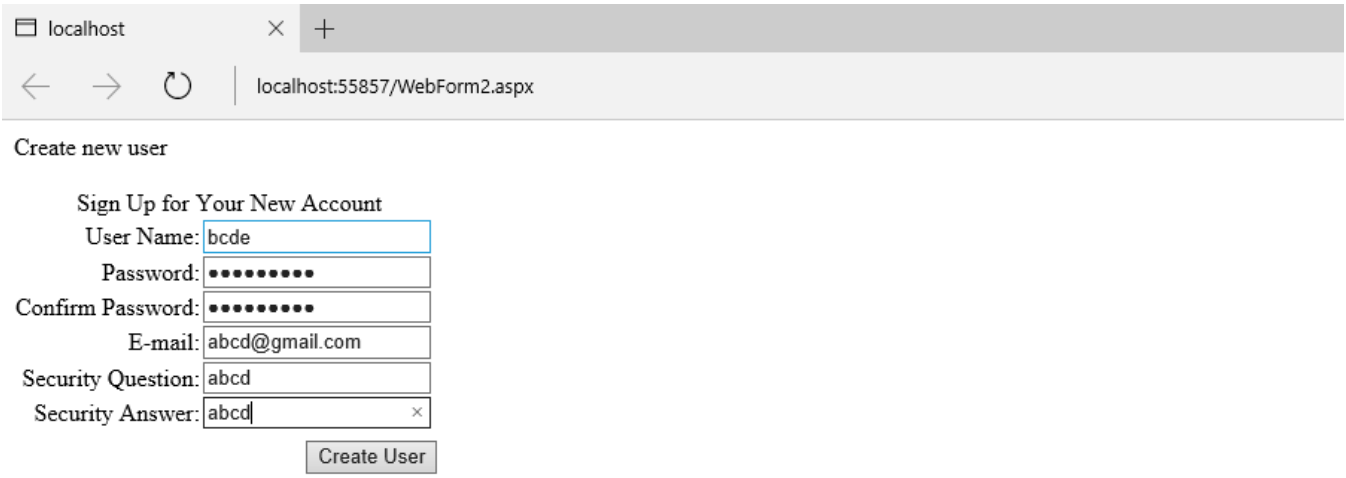
```
<%@ Page Language="C#" AutoEventWireup="true"  CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication3.WebForm2"  %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

      Create new user<br />
      <br />
      <asp:CreateUserWizard ID="CreateUserWizard1" runat="server"
         ContinueDestinationPageUrl="~/WebForm1.aspx"
         FinishDestinationPageUrl="~/WebForm1.aspx"
         oncreateduser="CreateUserWizard1_CreatedUser">
         <WizardSteps>
            <asp:CreateUserWizardStep runat="server" />
            <asp:CompleteWizardStep runat="server" />
         </WizardSteps>
      </asp:CreateUserWizard>

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

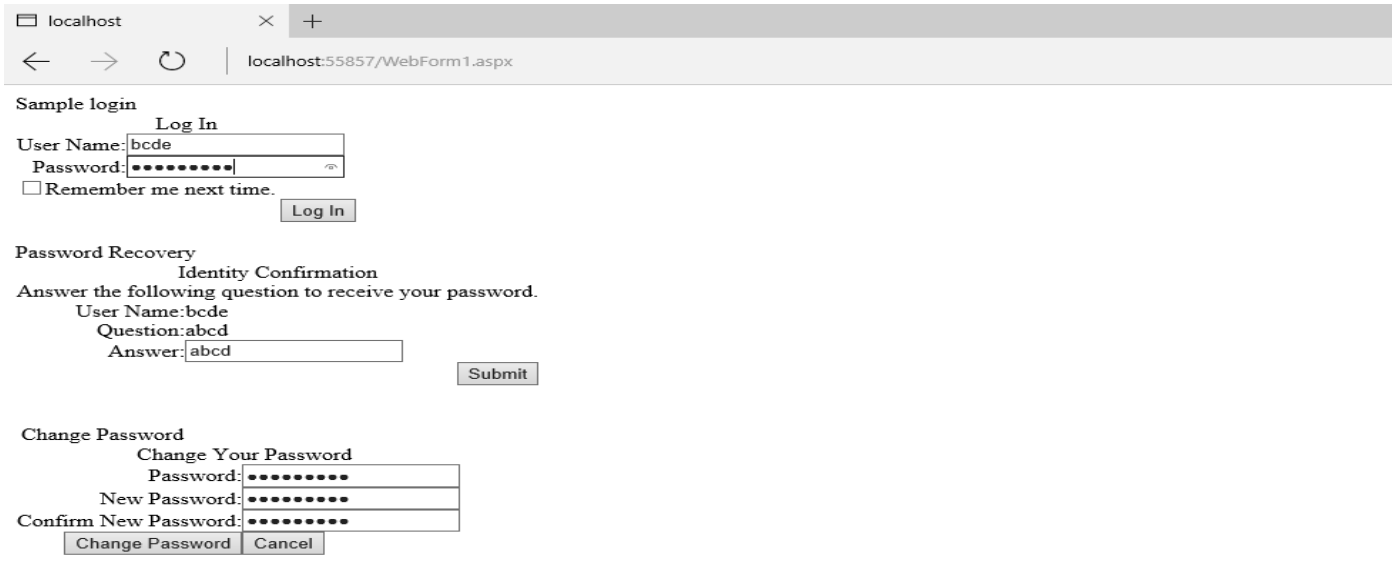
Webform1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"  CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication3.WebForm1"  %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

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

      Sample
login            &nb
sp;             
;             &
nbsp;            &nb
sp;             
;    
      <br />
      <asp:Login ID="Login1" runat="server">
      </asp:Login>
      <br />
      Password Recovery<br />
      <asp:PasswordRecovery ID="PasswordRecovery1" runat="server">
      </asp:PasswordRecovery>
      <br />
      <br />
 Change Password
      <asp:ChangePassword ID="ChangePassword1" runat="server">
      </asp:ChangePassword>

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

OUTPUT:-


localhost
localhost:55857/WebForm2.aspx
Create new user
Sign Up for Your New Account
User Name: bcde
Password: ••••••••••
Confirm Password: ••••••••••
E-mail: abcd@gmail.com
Security Question: abcd
Security Answer: abcd
Create User


localhost
localhost:55857/WebForm1.aspx
Sample login
Log In
User Name: bcde
Password: ••••••••••
Remember me next time.
Log In
Password Recovery
Identity Confirmation
Answer the following question to receive your password.
User Name:bcde
Question:abcd
Answer: abcd
Submit
Change Password
Change Your Password
Password: ••••••••••
New Password: ••••••••••
Confirm New Password: ••••••••••
Change Password
Cancel

3) a program demonstrating view control

Webform1.aspx

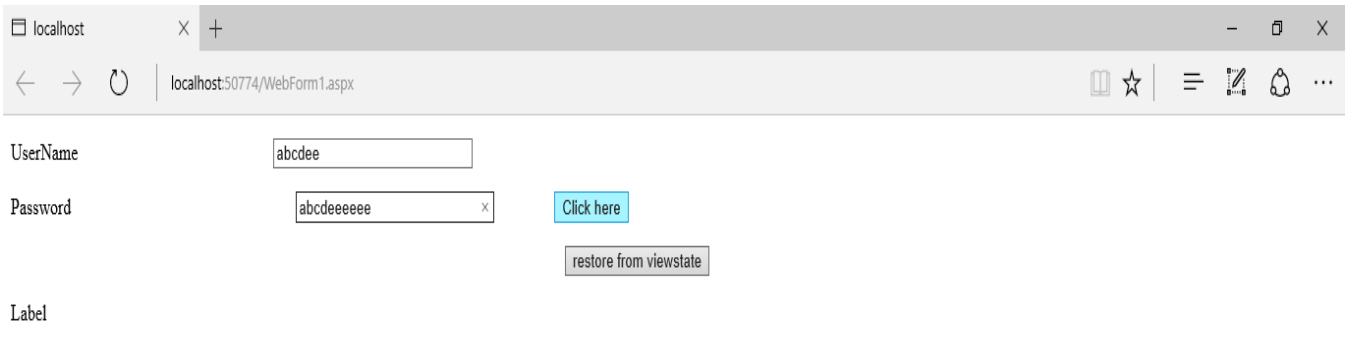
```
<%@ Page Language="C#" AutoEventWireup="true"  CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication4.WebForm1"   %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

  </div>
  <p>
    UserName<asp:TextBox ID="TextBox1" runat="server"
      style="margin-left: 199px" Width="199px"  EnableViewState="False"></asp:TextBox>
  </p>
  <p>
    Password<asp:TextBox ID="TextBox2" runat="server"
      style="margin-left: 229px" Width="198px"></asp:TextBox>
    <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
      style="margin-left: 57px" Text="Click here" />
  </p>
  <p>
    <asp:Button ID="Button2" runat="server" onclick="Button2_Click"
      style="margin-left: 564px" Text="restore from viewstate" />
  </p>
  <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
  </form>
</body>
</html>
```

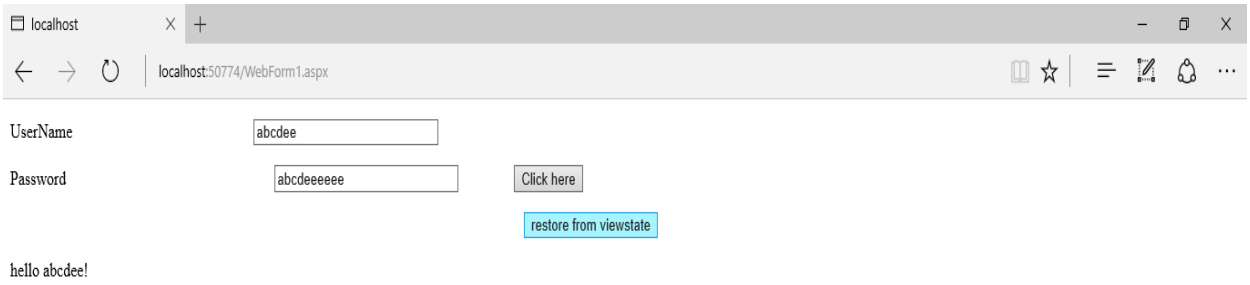
Webform1.aspx.cs

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

```
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication4
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }
      protected void Button1_Click(object sender, EventArgs e)
      {
         ViewState["name"] = TextBox1.Text;
         ViewState["Email"] = TextBox2.Text;
         Label1.Text = "hello  " +TextBox1.Text+ "!" ;
         TextBox1.Text = TextBox2.Text = string.Empty;
       }
      protected void Button2_Click(object sender, EventArgs e)
      {
         TextBox1.Text = ViewState["name"].ToString();
         TextBox2.Text = ViewState["Email"].ToString();
      }
   }
}
```

OUTPUT:-





4) Write a program demonstrating post back

Webform1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"  CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication7.WebForm1"  %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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


            &
nbsp;    
      <asp:Label ID="Label1" runat="server"  Text="Label"></asp:Label>
      <asp:Button ID="Button1" runat="server" Text="Button"  onclick="Button1_Click"
        style="margin-left: 109px" />
  </div>
  </form>
</body>
</html>
```

Webform1.aspx.cs

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

namespace WebApplication7
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {
         if (!IsPostBack)
         {
            Label1.Text = "post";
         }
         else
         {
            Label1.Text = "postback";
            //process submitted data;
         }
      }

      protected void Button1_Click(object sender, EventArgs e)
      {

      }
   }
}
```

OUTPUT:

5) Write a program demonstrating Master Page

Site1.master

```
<%@ Master Language="C#" AutoEventWireup="true"  CodeBehind="Site1.master.cs"
Inherits="WebApplication28.Site1"  %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
   <asp:ContentPlaceHolder ID="head" runat="server">
   </asp:ContentPlaceHolder>
</head>
<body>
   <form id="form1" runat="server">
   <div align="center">
   <h1>My Test WebSite</h1>
   <asp:Menu ID="Menu1" runat="server" BackColor="#B5C7DE" DynamicHorizontalOffset="2"
      Font-Names="Verdana"  Font-Size="0.8em"
      ForeColor="#284E98"  Orientation="Horizontal"
      StaticSubMenuIndent="10px">
      <StaticMenuItemStyle  HorizontalPadding="5px"  VerticalPadding="2px" />
      <DynamicHoverStyle  BackColor="#284E98" ForeColor="White"  />
      <DynamicMenuStyle  BackColor="#B5C7DE" />
      <StaticSelectedStyle BackColor="#507CD1" />
      <DynamicSelectedStyle BackColor="#507CD1" />
      <DynamicMenuItemStyle  HorizontalPadding="5px"  VerticalPadding="2px" />
      <Items>
```

```
        <asp:MenuItem Text="HOME" Value="HOME" NavigateUrl="~/WebForm2.aspx">
        </asp:MenuItem>
        <asp:MenuItem Text="ABOUT" Value="ABOUT" NavigateUrl="~/WebForm3.aspx">
        </asp:MenuItem>
        <asp:MenuItem Text="CONTACT" Value="CONTACT" NavigateUrl="~/WebForm4.aspx">
        </asp:MenuItem>
      </Items>
      <StaticHoverStyle BackColor="#284E98" ForeColor="White" />
   </asp:Menu>

   <!--<span class="code-comment"> Here we have content place holder where all content
pages
   will render their controls  -->
   <asp:contentplaceholder id="ContentPlaceHolder1" runat="server">
   </asp:contentplaceholder>

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

Webform2.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm2.aspx.cs" Inherits="WebApplication28.WebForm2" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<h2>This is a the HOME page.</h2>

</asp:Content>
```

Webform3.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm3.aspx.cs" Inherits="WebApplication28.WebForm3" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<h2>This is a the ABOUT page.</h2>
```

</asp:Content>

Webform4.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="WebForm4.aspx.cs" Inherits="WebApplication28.WebForm4" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<h2>This is a the Contact page.</h2>
</asp:Content>
```

OUTPUT:-

My Test WebSite

HOME ABOUT CONTACT

This is a the HOME page.

PRATICAL-9

AIM: Create a web application that will use the concept of cookie, Response, request and session object

a) **Session Object**

Webform1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"  CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication3.WebForm1"  %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
<title></title>
</head>
<body>
<form id="form1"  runat="server">
<table>
<tr>
<td>
<b>No of Visits:</b>
</td>
<td>
<asp:Label ID="lblCount" runat="server"  ForeColor="Red"  />
</td>
</tr>
</table>
</form>
</body>
</html>
```

Global.asax.cs

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

```
using System.Web.SessionState;

namespace WebApplication3
{
   public class Global : System.Web.HttpApplication
   {

      void Application_Start(object  sender, EventArgs e)
      {
         // Code that runs on application startup
         Application["NoOfVisitors"] = 0;
      }

      void Session_Start(object sender, EventArgs e)
      {
         // Code that runs when a new session is started
         Application.Lock();
         Application["NoOfVisitors"] = (int)Application["NoOfVisitors"] + 1;
         Application.UnLock();
      }
   }
}
```

OUTPUT:-

b) Cookie object

Webform1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"  CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication39.WebForm1"  %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
```

```
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    Enter Name :
    <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
    <br />
    Enter Value:
    <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
    <br />
    <br />
    <asp:Button ID="Button1" runat="server" Text="Save Cookie"
      onclick="Button1_Click1" />
    <asp:Button ID="Button2" runat="server" Text="Retrieve Cookie"
      onclick="Button2_Click1" />
    <asp:Button ID="Button3" runat="server" Text="Delete Cookie"
      onclick="Button3_Click1" />
    <br />
    <br />
    <asp:Label ID="Label1" runat="server"  Text="label"></asp:Label>
  </div>
  </form>
</body>
</html>
```

Webform1.aspx.cs

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


namespace WebApplication39
{
  public partial class WebForm1 : System.Web.UI.Page
  {
    protected void Button1_Click1(object sender, EventArgs e)
    {
```

```
        HttpCookie kukie = default(HttpCookie);
        if (Request.Cookies[TextBox1.Text] == null)
        {
            kukie = new HttpCookie(TextBox1.Text, TextBox2.Text);
        }
        else
        {
            kukie = Request.Cookies[TextBox1.Text];
        }
        if (TextBox1.Text.Length > 0)
        {
            kukie.Values.Add(TextBox1.Text, TextBox2.Text);
        }
        kukie.Expires = System.DateTime.Now.AddDays(1);
        Response.AppendCookie(kukie);
        Label1.Text = "The Cookie named " + TextBox1.Text + " has been saved.";
    }

    protected void Button2_Click1(object sender, EventArgs e)
    {
        if (object.ReferenceEquals(TextBox1.Text, ""))
        {
            Label1.Text = "Please enter the name of the Cookie in the Name text box.";
        }
        else
        {
            Label1.Text = "The value of the <b>" + TextBox1.Text + "</b> cookie is <b>" +
Request.Cookies[TextBox1.Text].Value + "</b>";
        }
    }

    protected void Button3_Click1(object sender, EventArgs e)
    {
        Response.Cookies[TextBox1.Text].Value = null;
       Response.Cookies[TextBox1.Text].Expires = System.DateTime.Now.AddMonths(-1);
        Label1.Text = "The cookie, named " + TextBox1.Text + " has been successfully deleted.";


    }


  }
}
```

OUTPUT:-


localhost
localhost:50495/WebForm1.aspx
Enter Name : abcdde
Enter Value: abcdeed
Save Cookie
Retrieve Cookie
Delete Cookie
The value of the abcdde cookie is abcdeed&abcdde=abcdeed&abcdde=abcdeed&abcdde=abcdeed


localhost
localhost:50495/WebForm1.aspx
Enter Name : abcdde
Enter Value: abcdeed
Save Cookie
Retrieve Cookie
Delete Cookie
The Cookie named abcdde has been saved.


localhost
localhost:50495/WebForm1.aspx
Enter Name :
Enter Value:
Save Cookie
Retrieve Cookie
Delete Cookie
The cookie, named abcdde has been successfully deleted.

Practical 10. Create Simple Web Service Application.

WebService.asmx

```
<%@ WebService Language="C#" CodeBehind="~/App_Code/WebService.cs"
Class="WebService" %>
```

App_Code/WebService.cs

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

/// <summary>
/// Summary description for WebService
/// </summary>
[WebService(Namespace = "http://tempuri.org/")]
[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
// To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the
following line.
// [System.Web.Script.Services.ScriptService]
public class WebService : System.Web.Services.WebService
{
    public WebService()
    {

        //Uncomment the following line if using designed components
        //InitializeComponent();
    }
    [WebMethod]
    public string HelloWorld()
    {
        return "Hello World";
    }
    [WebMethod]
    public double CalculateSimpleInterest(double principal, double rate, int duration)
    {
        double SI = 0;
        SI = principal * rate * duration / 100;
        return SI;
```

```
   }
}
```

Web.config

```
<?xml version="1.0"?>
<!--
 For more information on how to configure your ASP.NET application, please visit
 http://go.microsoft.com/fwlink/?LinkId=169433
 -->
<configuration>
 <system.web>
  <compilation debug="true" targetFramework="4.0"/>
 </system.web>
 <appSettings>
  <add key="localhost.WebService"
value="http://localhost:63321/WebSite3/WebService.asmx"/>
 </appSettings>
</configuration>
```

Default.aspx

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


<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

        "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
  <strong><span style="text-decoration: underline"><em>Calculate Simple
                          Interest using
                         the Web Service<br />
                         </em></span></strong>
                         <br />
                         <asp:Label ID="Label1" runat="server" Text="Principal"
```

```
                    Width="66px"></asp:Label>
                                   
                     <asp:TextBox ID="txtPrincipal"
                    runat="server"></asp:TextBox><br />
                    <br />
                    <asp:Label ID="Label2" runat="server" Text="Rate"
                    Width="63px"></asp:Label>
                                     
                    <asp:TextBox ID="txtRate" runat="server"></asp:TextBox><br />
                    <br />
                    <asp:Label ID="Label3" runat="server" Text="Duration"
                    Width="63px"></asp:Label>
                                     
                    <asp:TextBox ID="txtDuration" runat="server"></asp:TextBox>
                    <br />
                    <br />
                    <asp:Label ID="Label4" runat="server" Text="Simple Interest"
                    Width="105px"></asp:Label>
                           
                    <asp:TextBox ID="txtSimpleInterest" runat="server"></asp:TextBox><br
/>
                    <br />
                    <asp:Label ID="Label5" runat="server" Width="62px"></asp:Label>
                                    
                    <asp:Button ID="Button1" runat="server" Text="Calculate Simple
Interest"
                    Width="220px" 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;
```

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

   }
   protected void Button1_Click(object sender, EventArgs e)
   {
      localhost.WebService ws = new localhost.WebService();
      double SI = 0;
      ws.EnableDecompression = true;
      if (txtPrincipal.Text == null | txtRate.Text == null | txtDuration.Text == null)
      {
         Label5.Text = "Unable to calculate simple interest";
      }
      else
      {
         SI = ws.CalculateSimpleInterest(Convert.ToDouble(txtPrincipal.Text),
Convert.ToDouble(txtRate.Text), Convert.ToInt32(txtDuration.Text));
         //         txtSimpleInterest.Enabled = true;
         txtSimpleInterest.Text = SI.ToString();
         Label5.Text = "";
      }

   }
}
```

OUTPUT:-