BASIC CONTROLS

PRACTICAL NO. 1

Aim: Create a ASP.NET Web Page to convert temperature from Celsius to Fahrenheit and vice versa.

Program:

Temp_to_Fare.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
     <center>
     <div>
        <div>
           <asp:Label ID="Label2" runat="server" Text="Enter a Number:"></asp:Label>
        <asp:TextBox ID="TextBox1" runat="server" onkeypress="return isNumber(event)"
autocomplete="off" OnTextChanged="TextBox1_TextChanged"></asp:TextBox>
           </div>
        <br />
        <div>
        <asp:RadioButton ID="opt1" runat="server" GroupName="Sample"  Text="Celcius"
        AutoPostBack="true" OnCheckedChanged="CtrlChanged" />

        <asp:RadioButton ID="opt2" runat="server" GroupName="Sample"  Text="Fahrenheit"
        AutoPostBack="true" OnCheckedChanged="CtrlChanged" />
           </div>
        <br />
        <div>
           <asp:Label ID="Label1" runat="server" visible="false"></asp:Label>
        <asp:TextBox ID="TextBox2" runat="server" Visible="false"
Enabled="false"></asp:TextBox>
           </div>
        <br />
        <div>
```

```
                <asp:Button ID="btnClear" runat="server" onclick="BtnClear_Click" Text="Clear" />
                </div>
        </div>
            </center>
    </form>
    <script>
       function isNumber(evt) {
          debugger;
          evt = (evt) ? evt : window.event;
          var charCode = (evt.which) ? evt.which : evt.keyCode;
          if (charCode > 31 && (charCode < 48 || charCode > 57)) {
             return false;
          }
          return true;
       }
    </script>
</body>
</html>
```

Temp_to_Fare.aspx.cs

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

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

      }
      protected void CtrlChanged(Object sender, EventArgs e)
      {
         try
         {
            if (TextBox1.Text != "" || TextBox1.Text != null)
            {
```

```csharp
        if (opt1.Checked == true)
        {
            int s = Convert.ToInt32(TextBox1.Text);
            int f = s * 9 / 5 + 32;
            Label1.Visible = true;
            TextBox2.Visible = true;
            Label1.Text = "Converted Celcius To Fahrenheit Value is:";
            TextBox2.Text = f.ToString();
        }
        else
        {
            int f = Convert.ToInt32(TextBox1.Text);
            int c = (f - 32) * 5 / 9;
            Label1.Visible = true;
            TextBox2.Visible = true;
            Label1.Text = "Converted Fahrenheit To Celcius Value is:";
            TextBox2.Text = c.ToString();
        }
    }
}
catch (Exception ex)
{

}
}
protected void BtnClear_Click(object sender, EventArgs e)
{
    Label1.Visible = false;
    TextBox2.Visible = false;
    TextBox1.Text = "";
    opt1.Checked = false;
    opt2.Checked = false;
}

protected void TextBox1_TextChanged(object sender, EventArgs e)
{
    //opt1.Enabled = true;
    //opt2.Enabled = true;
}
}
```

}
Output :

Enter a Number: 50

⦿ Celcius   ○ Fahrenheit

Converted Celcius To Fahrenheit Value is: 122

Clear

Enter a Number: 50

○ Celcius   ⦿ Fahrenheit

Converted Fahrenheit To Celcius Value is: 10

Clear

PRACTICAL NO. 2

Aim: Design a webpage to provide functionality of date time object. The date and time should be seen in the above format.

Also, accept a date of birth of your friend in a textbox in the form MM/DD/YY and show how old he / she is in another textbox.

Program:

Pract2.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Pract2.aspx.cs"
Inherits="Practicals.Pract2" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
     <table border="1">
      <tr>
     <td><asp:Label ID="Label2" runat="server" Text="Full Date &amp; Time
:"></asp:Label></td>
     <td><asp:TextBox ID="TextBox1" runat="server"></asp:TextBox></td>
     </tr>
     <tr>
     <td><asp:Label ID="Label3" runat="server" Text="Long Date :"></asp:Label></td>
     <td><asp:TextBox ID="TextBox2" runat="server"></asp:TextBox></td>
     </tr>
     <tr>
     <td><asp:Label ID="Label4" runat="server" Text="Short Date :"></asp:Label></td>
     <td><asp:TextBox ID="TextBox3" runat="server"></asp:TextBox></td>
     </tr>
     <tr>
     <td><asp:Label ID="Label5" runat="server" Text="General Date &amp; Time
:"></asp:Label></td>
     <td><asp:TextBox ID="TextBox4" runat="server"></asp:TextBox></td>
     </tr>
     <tr>
     <td><asp:Label ID="Label6" runat="server" Text="Long Time :"></asp:Label></td>
     <td><asp:TextBox ID="TextBox5" runat="server"></asp:TextBox></td>
     </tr>
```

```
<tr>
<td><asp:Label ID="Label7" runat="server" Text="Short Date :"></asp:Label></td>
<td><asp:TextBox ID="TextBox6" runat="server"></asp:TextBox></td>
</tr>
<tr>
<td><asp:Label ID="Label8" runat="server" Text="Days Until New Years :
"></asp:Label></td>
<td><asp:TextBox ID="TextBox7" runat="server"></asp:TextBox></td>
</tr>

</table>
<br/>

<asp:Label ID="Label9" runat="server" Text="Enter Birth Date :"></asp:Label>
 <asp:TextBox ID="TextBox8" runat="server"></asp:TextBox>
 <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Calculate"
/>
<br />
<br />
             
             
  
<asp:TextBox ID="TextBox9" runat="server"></asp:TextBox>
 </div>
</form>
</body>
</html>
```

Pract2.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Practicals
{
    public partial class Pract2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
```

```
            TextBox1.Text = DateTime.Now.ToLongDateString();
            TextBox2.Text = DateTime.Now.ToLongDateString();
            TextBox3.Text = DateTime.Now.ToShortDateString();
            TextBox4.Text = DateTime.Now.ToString();
            TextBox5.Text = DateTime.Now.ToLongTimeString();
            TextBox6.Text = DateTime.Now.ToShortTimeString();
            DateTime startdate = DateTime.Now;
            DateTime enddate = new DateTime(2021,12,31);
            // Difference in days, hours, and minutes.
            TimeSpan ts = enddate-startdate;
            // Difference in days.
            int differenceInDays = ts.Days;
          TextBox7.Text= differenceInDays.ToString();


        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            DateTime dob = DateTime.Parse(TextBox8.Text);
            TimeSpan tm = (DateTime.Now - dob);
            int age = (tm.Days / 365);
            TextBox9.Text = age.ToString();
        }


    }
}
```

Output :

Full Date & Time :	Wednesday, July 14, 2021
Long Date :	Wednesday, July 14, 2021
Short Date :	07/14/2021
General Date & Time :	07/14/2021 10:30:57 AM K/
Long Time :	10:30:57 AM KARTIK
Short Date :	10:30 AM KARTIK
Days Until New Years :	169

Enter Birth Date : 11/15/1999   Calculate

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PRACTICAL NO. 3

Aim: Create ASP.NET webpage to demonstrate the working of html controls.

Program :

Pract3.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Pract3.aspx.cs"
Inherits="Practicals.Pract3" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1">
   <div>
     <table border="1">
       <tr>
         <td>Enter Id: </td>
         <td><input id="Text1" type="text" /></td>
       </tr>
       <tr>
         <td>Enter FullName: </td>
         <td><input id="Text2" type="text" /></td>
       </tr>
       <tr>
         <td>Enter LastName: </td>
         <td><input id="Text3" type="text" /></td>
       </tr>
       <tr>
         <td>Enter UserName: </td>
         <td><input id="Text4" type="text" /></td>
       </tr>
       <tr>
         <td>Enter Password: </td>
         <td><input id="Password1" type="password" /></td>
       </tr>
       <tr align="center">
         <td colspan="2"><input id="submit" type="submit" value="submit" /></td>
         <td><input id="Reset1" type="reset" value="reset" /></td>
       </tr>
     </table><br/><br/>
```

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

Ouput :

Enter Id:	01
Enter FirstName:	kartik
Enter LastName:	chopade
Enter UserName:	kartikchopade123
Enter Password:	•••••••••••
	Submit reset

PRACTICAL NO. 4

Aim: Design an ASP.NET application to display current month calendar and a combo-box that contains names of renowned persons of India. After selecting the names of the person from the combo-box, the date of birth of that person should be seen as selected in the calendar.

Program :

Pract4.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract4.aspx.cs"
Inherits="Practicals.Pract4" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title></title>
   <style type="text/css">
      .auto-style1 {
         text-align: center;
      }
      .auto-style2 {
         text-align: left;
      }
      .auto-style3 {
         width: 263px;
      }
      .auto-style4 {
         text-align: justify;
         height: 26px;
      }
      .auto-style5 {
         width: 263px;
         height: 26px;
      }
      .auto-style6 {
         height: 26px;
      }
      .auto-style7 {
         width: 263px;
         height: 38px;
      }
      .auto-style8 {
         text-align: left;
         height: 38px;
```

```
        }
        .auto-style9 {
            height: 38px;
        }
        .auto-style10 {
            text-align: center;
            width: 578px;
        }
        .auto-style11 {
            text-align: left;
            width: 578px;
        }
        .auto-style12 {
            width: 578px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            <br />
            <br />
            <asp:Panel ID="Panel1" runat="server" BorderStyle="Solid">
                <table style="width:100%;">
                    <tr>
                        <td class="auto-style3"> </td>
                        <td class="auto-style10"> </td>
                        <td class="auto-style1"> </td>
                        <td> </td>
                    </tr>
                    <tr>
                        <td class="auto-style7"></td>
                        <td class="auto-style8" colspan="2">
```


 <asp:Label ID="Label1" runat="server" Text="Reowned Person" Font-Size="Medium"
Font-Underline="False"></asp:Label>
       </td>
       <td class="auto-style9"></td>
     </tr>
     <tr>
       <td class="auto-style3"> </td>
       <td class="auto-style10"> </td>
       <td class="auto-style1"> </td>
       <td> </td>
     </tr>
     <tr>
       <td class="auto-style3"> </td>
       <td class="auto-style11">

      <asp:Label ID="Label2" runat="server" Text="Select the Name:" Font-
Size="Large"></asp:Label>
      </td>
      <td class="auto-style2">
       <asp:DropDownList ID="ddlname" runat="server"
OnSelectedIndexChanged="ddlname_SelectedIndexChanged" EnableViewState="true"
AutoPostBack="true" Height="23px" Width="300px">
        <asp:ListItem>Select</asp:ListItem>
        <asp:ListItem>Milkha Singh</asp:ListItem>
        <asp:ListItem>ABJ Abdul Kalam</asp:ListItem>
        <asp:ListItem>Atal Bihari Vajpayee</asp:ListItem>
        <asp:ListItem>Mahatma Gandhi</asp:ListItem>
         <asp:ListItem>Rani Lakshmi Bai</asp:ListItem>

      </asp:DropDownList>
      </td>
      <td> </td>
     </tr>

```
<tr>
   <td class="auto-style3"> </td>
   <td class="auto-style10"> </td>
   <td class="auto-style1"> </td>
   <td> </td>
</tr>
<tr>
   <td class="auto-style3"> </td>
   <td class="auto-style11">

             
             
             
             
             <asp:Label ID="Label3" runat="server" Text="Selected Date of Birth:" Font-
Size="Large"></asp:Label>
          </td>
          <td>
            <asp:Calendar ID="Calendar1" runat="server" SelectionMode="None"
    ShowGridLines="True" BorderStyle="Solid" BorderWidth="2px"  >


             <DayHeaderStyle BackColor="#6699FF" ForeColor="White" />


<SelectedDayStyle BackColor="#66CCFF"
          ForeColor="White">
</SelectedDayStyle>
                <TitleStyle Font-Bold="True" />
              </asp:Calendar>
          </td>
          <td> </td>
       </tr>
       <tr>
          <td class="auto-style3"> </td>
          <td class="auto-style10"> </td>
          <td class="auto-style1"> </td>
          <td> </td>
       </tr>
       <tr>
```

```
<td class="auto-style5"></td>
<td class="auto-style4" colspan="2">
              
             
             
             
             
            <asp:Label
ID="lblmsg" runat="server"></asp:Label>
   </td>
<td class="auto-style6"></td>
</tr>
<tr>
   <td class="auto-style3"> </td>
   <td class="auto-style12"> </td>
   <td>
       </td>
   <td> </td>
</tr>
<tr>
   <td class="auto-style3"> </td>
   <td class="auto-style12"> </td>
   <td> </td>
   <td> </td>
</tr>
   </table>
</asp:Panel>
</div>
</form>
</body>
</html>
```

Pract4.aspx.cs

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

namespace Practicals
```

```
{
  public partial class Pract4 : System.Web.UI.Page
  {
    protected void Page_Load(object sender, EventArgs e)
    {

    }
     protected void ddlname_SelectedIndexChanged(object sender, EventArgs e)
    {
      if (ddlname.SelectedValue == "Milkha Singh")
      {
        Calendar1.VisibleDate = new DateTime(1929, 11, 23);
        Calendar1.SelectedDate = new DateTime(1929, 11, 23);
        lblmsg.Text = "Milkha Singh was born on " +
        Calendar1.VisibleDate.ToShortDateString();
        lblmsg.ForeColor = System.Drawing.Color.OrangeRed;
      }
      else if (ddlname.SelectedValue == "ABJ Abdul Kalma")
      {
        Calendar1.VisibleDate = new DateTime(1931, 10, 15);
        Calendar1.SelectedDate = new DateTime(1931, 10, 15);
        lblmsg.Text = "APJ Abdul Kalam was born on " +
        Calendar1.VisibleDate.ToShortDateString();
        lblmsg.ForeColor = System.Drawing.Color.OrangeRed;
      }

      else if (ddlname.SelectedValue == "Atal Bihari Vajpayee")
      {
        Calendar1.VisibleDate = new DateTime(1924, 12, 25);
        Calendar1.SelectedDate = new DateTime(1924, 12, 25);
        lblmsg.Text = " Atal Bihari Vajpayee was born on " +
        Calendar1.VisibleDate.ToShortDateString();
        lblmsg.ForeColor = System.Drawing.Color.OrangeRed;
      }

      else if (ddlname.SelectedValue == "Mahatma Gandhi")
      {
        Calendar1.VisibleDate = new DateTime(1869, 10, 02);
        Calendar1.SelectedDate = new DateTime(1869, 10, 02);
        lblmsg.Text = "Mahatma Gandhi was born on" +
```

```
            Calendar1.VisibleDate.ToShortDateString();
            lblmsg.ForeColor = System.Drawing.Color.OrangeRed;
        }
        else if (ddlname.SelectedValue == "C. V. Raman")
        {
            Calendar1.VisibleDate = new DateTime(1888, 11, 07);
            Calendar1.SelectedDate = new DateTime(1888, 11, 07);
            lblmsg.Text = "C. V. Raman was born on " +
            Calendar1.VisibleDate.ToShortDateString();
            lblmsg.ForeColor = System.Drawing.Color.OrangeRed;
        }
        else if (ddlname.SelectedValue == "Rani Lakshmi Bai")
        {
            Calendar1.VisibleDate = new DateTime(1828, 11, 19);
            Calendar1.SelectedDate = new DateTime(1828, 11, 19);
            lblmsg.Text = "Rani Lakshmi Bai was born on " +
            Calendar1.VisibleDate.ToShortDateString();
            lblmsg.ForeColor = System.Drawing.Color.OrangeRed;
        }


    }

  }
}
```

Output:

Reowned Person

Select the Name: Mahatma Gandhi

≤			October 1869			≥
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Selected Date of Birth:

Mahatma Gandhi was born on10/02/1869

CLASSES AND OBJECTS

PRACTICAL NO. 5

Aim : Program to create a class with get and set methods to calculate the Simple Interest and compound interest by taking the principal amount, rate and period from the user.

Program :

Pract5.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract5.aspx.cs"
Inherits="Practicals.Pract5" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
    <title></title>
</head>
<body style="background-color:blanchedalmond">
    <form id="form1" runat="server">
      <div>
          <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="Larger"
ForeColor="Blue" Text="Simple And Compound Interest Calculator"></asp:Label>
          <br />
          <br />
          <asp:Label ID="Label2" runat="server" Text="Enter Principal Amount : "></asp:Label>
          <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
          <br />
          <br />
          <asp:Label ID="Label3" runat="server" Text="Enter Principal Rate :  "></asp:Label>
    
          <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
          <br />
          <br />
          <asp:Label ID="Label4" runat="server" Text="Enter Principal Period : "></asp:Label>
 
          <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
          <br />
          <br />
          <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Simple
Interest" />
          
          <asp:Button ID="Button2" runat="server" OnClick="Button2_Click" Text="Compound
Interest" />
          <br />
          <br />
```

```
        <asp:Label ID="Label5" runat="server" Font-Bold="True"
ForeColor="Red"></asp:Label>
      </div>
    </form>
</body>
</html>
```

Pract5.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Practicals
{
    public partial class Pract5 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            Double principle = Convert.ToDouble(TextBox1.Text);
            Double rate = Convert.ToDouble(TextBox2.Text);
            Double period = Convert.ToDouble(TextBox3.Text);
            double SI = principle * rate * period / 100;
            Label5.Text = "Simple Interest Is : " + SI;
        }
        protected void Button2_Click(object sender, EventArgs e)
        {
            Double principle = Convert.ToDouble(TextBox1.Text);
            Double rate = Convert.ToDouble(TextBox2.Text);
            Double period = Convert.ToDouble(TextBox3.Text);
            Double A = principle * (Math.Pow((1 + rate / 100), period));
            double CI = A - principle;
            Label5.Text = "Compound Interest Is : " + CI;
        }
    }
}
```

Output :

Simple And Compound Interest Calculator

Enter Principal Amount : `10000`

Enter Principal Rate : `2`

Enter Principal Period : `4`

[Simple Interest]   [Compound Interest]

Simple Interest Is : 800

Simple And Compound Interest Calculator

Enter Principal Amount : `10000`

Enter Principal Rate : `2`

Enter Principal Period : `4`

[Simple Interest]   [Compound Interest]

Compound Interest Is : 824.321599999999

PRACTICAL NO. 6

Aim : Design Account class to handle different operations such as open, deposit, withdraw and check balance. Design s GUI to demonstrate use of this class.

Program :

Pract6.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract6.aspx.cs"
Inherits="Practicals.Pract6" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title></title>
     <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
     <style type="text/css">
.auto-style1 {
   border: 1px solid black;
   }
     </style>
</head>
<body>
   <form id="form1" runat="server">
     <center>
     <div>
        <table class="auto-style1" style="width: 702px;">
          <tr>
            <td> <asp:Label ID="Label2" runat="server" Text="Enter Your
Name:"></asp:Label></td>
            <td>
               <asp:TextBox ID="txtName" runat="server" CssClass="form-
control"></asp:TextBox>
                <br />
            </td>
  <br />
        </tr>
          <br />

        <tr>
          <td></td>
```

```
<td>
    <asp:RadioButton ID="opt1" runat="server" GroupName="Sample"
Text="withdraw"
      AutoPostBack="true" OnCheckedChanged="CtrlChanged" />

      <asp:RadioButton ID="opt2" runat="server" GroupName="Sample"  Text="deposit"
      AutoPostBack="true" OnCheckedChanged="CtrlChanged" />
          <br />
      </td>
       <tr runat="server" id="tr3" visible="false">
      <td> <asp:Label ID="Label1" runat="server" Text="Enter Initial
Balance:"></asp:Label></td>
      <td>
          <asp:TextBox ID="txtInitialBalance" runat="server" CssClass="form-
control"></asp:TextBox>
          <br />
      </td>

    </tr>
      </tr>
      <tr runat="server" id="tr1" visible="false">
      <td> <asp:Label ID="Label3" runat="server"></asp:Label></td>
      <td>
          <asp:TextBox ID="txtafteramount" runat="server" CssClass="form-control"
OnTextChanged="txtafteramount_TextChanged" AutoPostBack="true"></asp:TextBox>
          <br />
      </td>
        </tr>
        <tr runat="server" id="tr2" visible="false">
      <td> <asp:Label ID="Label4" runat="server"></asp:Label></td>
      <td>
          <asp:TextBox ID="txtfinalamount" runat="server" CssClass="form-control"
Enabled="false"></asp:TextBox>
          <br />
      </td>

    </tr>


      </table>
```

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

Pract6.aspx.cs

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

namespace Practicals
{
    public partial class Pract6 : System.Web.UI.Page
    {

        //Account[] account;
        Account ac;
        Account AT;
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void CtrlChanged(Object sender, EventArgs e)
        {
            tr3.Visible = false;
            tr1.Visible = false;
            tr2.Visible = false;

            if (opt1.Checked == true)
            {
                txtInitialBalance.Text = "";
                txtafteramount.Text = "";
                txtfinalamount.Text = "";
                tr3.Visible = true;
                tr1.Visible = true;
                Label3.Text = "The Amount You Want To Withdraw";
```

```
        }
        else
          if(opt2.Checked==true)
        {
          txtInitialBalance.Text = "";
          txtafteramount.Text = "";
          txtfinalamount.Text = "";
          tr3.Visible = true;
          tr1.Visible = true;
          Label3.Text = "The Amount You Want To Deposit";
        }

    }

    public class Account
    {
      public decimal Balance { get; set; }

      public Account(decimal initialBalance)
      {
        if (initialBalance < 0)
            throw new ArgumentOutOfRangeException("The initial balance must be greater or
equals to 0");
        this.Balance = initialBalance;
      }

      public bool TryDeposit(decimal amount)
      {
        this.Balance += amount;
        return true;
      }

      public bool TryWithdraw(decimal amount)
      {
        if (amount <= 0 || this.Balance - amount < 0)
            return false;
        this.Balance -= amount;
        return true;
      }
    }
```

```
protected void txtafteramount_TextChanged(object sender, EventArgs e)
{
    ac = new Account(Convert.ToDecimal(txtInitialBalance.Text));

    if (opt1.Checked == true)
    {
        tr2.Visible = true;
        ac.TryWithdraw(Convert.ToDecimal(txtafteramount.Text));
        Label4.Text = "The Amount after withdraw :";
        txtfinalamount.Text = Convert.ToString(ac.Balance);
    }
    if(opt2.Checked == true)
    {
        tr2.Visible = true;
        ac.TryDeposit(Convert.ToDecimal(txtafteramount.Text));
        Label4.Text = "The Amount after Deposit :";
        txtfinalamount.Text = Convert.ToString(ac.Balance);
    }

    }
}
}
```

Output :

Enter Your Name:	kartik
	◉withdraw ○deposit
Enter Initial Balance:	5000
The Amount You Want To Withdraw	3000
The Amount after withdraw :	2000

PRACTICAL NO. 7

Aim : Design ASP.NET application to calculate salary of an employee. Input name, age, basic, TA, DA, HRA, deduction of PF, insurance, SIP and professional tax. Show both Gross and Net Salary of that employee.

Program :

Pract7.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract7.aspx.cs"
Inherits="Practicals.Pract7" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
  <title></title>
  <style type="text/css">
    .auto-style3 {
      text-align: center;
    }
    .auto-style4 {
      text-align: center;
      width: 17px;
    }
    .auto-style5 {
      text-align: center;
      width: 16px;
    }
    .auto-style6 {
      text-align: right;
      width: 757px;
    }
    .auto-style7 {
      width: 757px;
    }
    .auto-style8 {
      text-align: center;
      width: 16px;
      height: 26px;
    }
    .auto-style9 {
      text-align: right;
      width: 757px;
      height: 26px;
```

```
        }
    .auto-style10 {
        height: 26px;
        text-align: center;
    }
    .auto-style11 {
        text-align: center;
        width: 17px;
        height: 26px;
    }
    </style>
</head>
<body>
    <form id="form2" runat="server">
        <div>
            <div>
                <asp:Panel ID="Panel1" runat="server"  BorderColor="Black" BorderStyle="Solid"
Height="901px" Width="1623px">
                    <table style="width: 100%;">
                        <tr>
                            <td class="auto-style5"> </td>
                            <td class="auto-style3"
colspan="2">           &
nbsp;            &n
bsp;            &nb
sp;           &nbs
p;            &nbsp
;            
                                <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="XX-
Large" Font-Underline="True" ForeColor="#993366" Text="Employee Salary "></asp:Label>
                            </td>
                            <td class="auto-style4"> </td>
                        </tr>
                        <tr>
                            <td class="auto-style5"> </td>
                            <td class="auto-style6"> </td>
                            <td> </td>
                            <td class="auto-style4"> </td>
                        </tr>
                        <tr>
```

```
        <td class="auto-style8"></td>
        <td class="auto-style9"></td>
        <td class="auto-style10"></td>
        <td class="auto-style11"></td>
    </tr>
    <tr>
        <td class="auto-style5"> </td>
        <td class="auto-style6">
            <asp:Label ID="Label2" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter Name: "></asp:Label>
        </td>
        <td class="auto-style3">
            <asp:TextBox ID="txtname" runat="server" Height="17px"
Width="451px"></asp:TextBox>
        </td>
        <td class="auto-style4"> </td>
    </tr>
    <tr>
        <td class="auto-style5"> </td>
        <td class="auto-style6"> </td>
        <td class="auto-style3"> </td>
        <td class="auto-style4"> </td>
    </tr>
    <tr>
        <td class="auto-style5"> </td>
        <td class="auto-style6">
            <asp:Label ID="Label3" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter Age : "></asp:Label>
        </td>
        <td class="auto-style3">
            <asp:TextBox ID="txtage" runat="server" Height="17px"
Width="451px"></asp:TextBox>
        </td>
        <td class="auto-style4"> </td>
    </tr>
    <tr>
        <td class="auto-style5"> </td>
        <td class="auto-style6"> </td>
        <td class="auto-style3"> </td>
        <td class="auto-style4"> </td>
```

```
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6">
              <asp:Label ID="Label4" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter Basic : "></asp:Label>
            </td>
            <td class="auto-style3">
              <asp:TextBox ID="txtbasic" runat="server" Height="17px"
Width="451px"></asp:TextBox>
            </td>
            <td class="auto-style4"> </td>
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6"> </td>
            <td class="auto-style3"> </td>
            <td class="auto-style4"> </td>
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6">
              <asp:Label ID="Label5" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter TA : "></asp:Label>
            </td>
            <td class="auto-style3">
              <asp:TextBox ID="txtTA" runat="server" Height="17px"
Width="451px"></asp:TextBox>
            </td>
            <td class="auto-style4"> </td>
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6"> </td>
            <td class="auto-style3"> </td>
            <td class="auto-style4"> </td>
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6">
```

```
            <asp:Label ID="Label6" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter DA : "></asp:Label>
            </td>
            <td class="auto-style3">
              <asp:TextBox ID="txtDA" runat="server" Height="17px"
Width="451px"></asp:TextBox>
            </td>
            <td class="auto-style4"> </td>
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6"> </td>
            <td class="auto-style3"> </td>
            <td class="auto-style4"> </td>
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6">
              <asp:Label ID="Label7" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter HRA: "></asp:Label>
            </td>
            <td class="auto-style3">
              <asp:TextBox ID="txtHRA" runat="server" Height="17px"
Width="451px"></asp:TextBox>
            </td>
            <td class="auto-style4"> </td>
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6"> </td>
            <td class="auto-style3"> </td>
            <td class="auto-style4"> </td>
          </tr>
          <tr>
            <td class="auto-style5"> </td>
            <td class="auto-style6">
              <asp:Label ID="Label8" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter  Deduction of PF: "></asp:Label>
            </td>
            <td class="auto-style3">
```

```
                <asp:TextBox ID="txtpf" runat="server" Height="17px"
Width="451px"></asp:TextBox>
                </td>
                <td class="auto-style4"> </td>
            </tr>
            <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style6"> </td>
                <td class="auto-style3"> </td>
                <td class="auto-style4"> </td>
            </tr>
            <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style6">
                    <asp:Label ID="Label9" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter Insurance: "></asp:Label>
                </td>
                <td class="auto-style3">
                    <asp:TextBox ID="txtInsurance" runat="server" Height="17px"
Width="451px"></asp:TextBox>
                </td>
                <td class="auto-style4"> </td>
            </tr>
            <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style6"> </td>
                <td class="auto-style3"> </td>
                <td class="auto-style4"> </td>
            </tr>
            <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style6">
                    <asp:Label ID="Label10" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter SIP: "></asp:Label>
                </td>
                <td class="auto-style3">
                    <asp:TextBox ID="txtSIP" runat="server" Height="17px"
Width="451px"></asp:TextBox>
                </td>
                <td class="auto-style4"> </td>
```

```
              </tr>
              <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style6"> </td>
                <td class="auto-style3"> </td>
                <td class="auto-style4"> </td>
              </tr>
              <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style6">
                  <asp:Label ID="Label11" runat="server" Font-Bold="True" Font-
Size="Large" Text="Enter  Professional tax: "></asp:Label>
                </td>
                <td class="auto-style3">
                  <asp:TextBox ID="txtTax" runat="server"  Height="17px"
Width="451px"></asp:TextBox>
                </td>
                <td class="auto-style4"> </td>
              </tr>
              <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style6"> </td>
                <td class="auto-style3"> </td>
                <td class="auto-style4"> </td>
              </tr>
              <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style7"> </td>
                <td> </td>
                <td class="auto-style4"> </td>
              </tr>
              <tr>
                <td class="auto-style5"> </td>
                <td class="auto-style7"> </td>
                <td class="auto-style3">
                  <asp:Button ID="btncalc" runat="server" Text="Calculate" Width="88px"
OnClick="btncalc_Click" />
                </td>
                <td class="auto-style4"> </td>
              </tr>
```

```
<tr>
   <td class="auto-style5"> </td>
   <td class="auto-style7"> </td>
   <td> </td>
   <td class="auto-style4"> </td>
</tr>
<tr>
   <td class="auto-style5"> </td>
   <td class="auto-style7"> </td>
   <td class="auto-style3">
      <asp:Label ID="lblgross" runat="server" Font-Bold="True" Font-
Size="Large"></asp:Label>
      </td>
   <td class="auto-style4"> </td>
</tr>
<tr>
   <td class="auto-style5"> </td>
   <td class="auto-style7"> </td>
   <td> </td>
   <td class="auto-style4"> </td>
</tr>
<tr>
   <td class="auto-style5"> </td>
   <td class="auto-style7"> </td>
   <td class="auto-style3">
      <asp:Label ID="lblNetSalary" runat="server" Font-Bold="True" Font-
Size="Large"></asp:Label>
      </td>
   <td class="auto-style4"> </td>
</tr>
<tr>
   <td class="auto-style5"> </td>
   <td class="auto-style7"> </td>
   <td> </td>
   <td class="auto-style4"> </td>
</tr>
<tr>
   <td class="auto-style5"> </td>
   <td class="auto-style7"> </td>
   <td> </td>
```

```
            <td class="auto-style4"> </td>
        </tr>
      </table>
    </asp:Panel>
  </div>
  </div>
</form>
</body>
</html>
```

Pract7.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Practicals
{
    public partial class Pract7 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void btncalc_Click(object sender, EventArgs e)
        {
            string name;
            name = txtname.Text;
            double hra, da, pf, basic, ta, insur, sip, tax, gross, net;
            basic = Convert.ToDouble(txtbasic.Text);
            hra = Convert.ToDouble(txtHRA.Text) * basic;
            da = Convert.ToDouble(txtDA.Text) * basic;
            pf = Convert.ToDouble(txtpf.Text);
            ta = Convert.ToDouble(txtTA.Text);
            tax = Convert.ToDouble(txtTax.Text);
            sip = Convert.ToDouble(txtSIP.Text);
            insur = Convert.ToDouble(txtInsurance.Text);
            gross = (basic + hra + da + ta);
            lblgross.Text = name + " your Gross salary is " + gross + " and ";
            net = (basic + hra + da + ta) - (pf + tax + sip + insur);
```

```
        lblNetSalary.Text = " Net salary  is " + net;
    }
  }
}
```

Output :

<div align="center">

Employee Salary

Enter Name:	kartik
Enter Age :	22
Enter Basic :	10000
Enter TA :	1000
Enter DA :	1000
Enter HRA:	10000
Enter Deduction of PF:	10000
Enter Insurance:	100
Enter SIP:	10000
Enter Professional tax:	1.5

Calculate

kartik your Gross salary is 110011000 and

Net salary is 109990898.5

</div>

INHERITANCE AND ABSTRACT CLASSES

REGISTRATION FORMS AND ADVANCED CONTROLS

PRACTICAL NO. 9

Aim :

a. Create an index page of a book using TreeView navigation control.

b. Create a homepage of a website using Menu navigation control.

Program :

a. Create an index page of a book using TreeView navigation control.

Pract9(a).aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract9(a).aspx.cs"
Inherits="Practicals.Pract9_a_" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title></title>
</head>
<body style="background-color:aquamarine">
   <form id="form1" runat="server">
     <div>
        <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="Larger"
ForeColor="Blue" Text="Index Page "></asp:Label>
        <br />
        <br />
        <asp:TreeView ID="TreeView1" runat="server" ImageSet="WindowsHelp">
          <HoverNodeStyle Font-Underline="True" ForeColor="#6666AA" />
          <Nodes>
            <asp:TreeNode Text="Employee" Value="Advance Web Technology">
              <asp:TreeNode Text="Upload Resume" Value="Unit1">
              </asp:TreeNode>
              <asp:TreeNode Text="Edit Resume" Value="Edit Resume">
              </asp:TreeNode>
              <asp:TreeNode Text="View Resume" Value="View Resume">
              </asp:TreeNode>
            </asp:TreeNode>
            <asp:TreeNode Text="Employer" Value="Employer">
              <asp:TreeNode Text="Upload job" Value="Upload job"></asp:TreeNode>
              <asp:TreeNode Text="Edit job" Value="Edit job"></asp:TreeNode>
              <asp:TreeNode Text="View job" Value="View job"></asp:TreeNode>
            </asp:TreeNode>
```
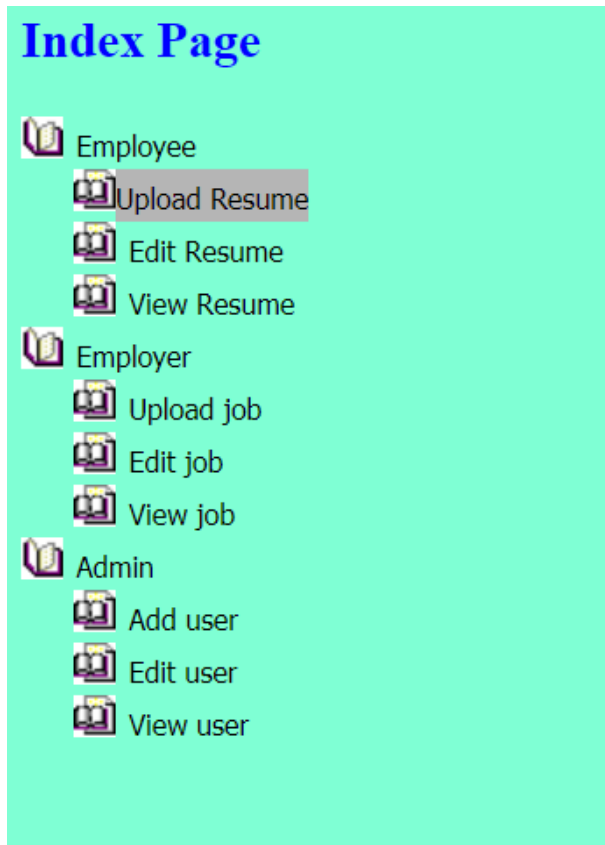
```
        <asp:TreeNode Text="Admin" Value="Admin">
            <asp:TreeNode Text="Add user" Value="Add user"></asp:TreeNode>
            <asp:TreeNode Text="Edit user" Value="Edit user"></asp:TreeNode>
            <asp:TreeNode Text="View user" Value="View user"></asp:TreeNode>
        </asp:TreeNode>
    </Nodes>
    <NodeStyle Font-Names="Tahoma" Font-Size="8pt" ForeColor="Black"
HorizontalPadding="5px" NodeSpacing="0px" VerticalPadding="1px" />
    <ParentNodeStyle Font-Bold="False" />
    <SelectedNodeStyle BackColor="#B5B5B5" Font-Underline="False"
HorizontalPadding="0px" VerticalPadding="0px" />
    </asp:TreeView>
    </div>
    </form>
</body>
</html>
```

Output :

b. Create a homepage of a website using Menu navigation control.
Pract9(b).aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract9(b).aspx.cs"
Inherits="Practicals.Pract9_b_" %>

<!DOCTYPE html>

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

</head>
<body style="background-color:blanchedalmond">

    <form id="form1" runat="server">
    <div>

        <asp:Menu ID="Menu1" runat="server" Orientation="Horizontal"
RenderingMode="Table">

            <Items>
                <asp:MenuItem Text="Home" Value="Home"></asp:MenuItem>
                <asp:MenuItem Text="Admin" Value="Admin">
                    <asp:MenuItem Text="Add user" Value="Add user"></asp:MenuItem>
                    <asp:MenuItem Text="Edit user" Value="Edit user"></asp:MenuItem>
                    <asp:MenuItem Text="View user" Value="View user"></asp:MenuItem>
                </asp:MenuItem>
                <asp:MenuItem Text="Employee" Value="Employee">
                    <asp:MenuItem Text="Add Employee" Value="Add Employee"></asp:MenuItem>
                    <asp:MenuItem Text="Edit Employee" Value="Edit Employee"></asp:MenuItem>
                    <asp:MenuItem Text="View Employee" Value="View
Employee"></asp:MenuItem>
                    <asp:MenuItem Text="Delete Employee" Value="Delete
Employee"></asp:MenuItem>
                </asp:MenuItem>
                <asp:MenuItem Text="Contact" Value="Contact"></asp:MenuItem>
                <asp:MenuItem Text="About" Value="About"></asp:MenuItem>
            </Items>
        </asp:Menu>
```
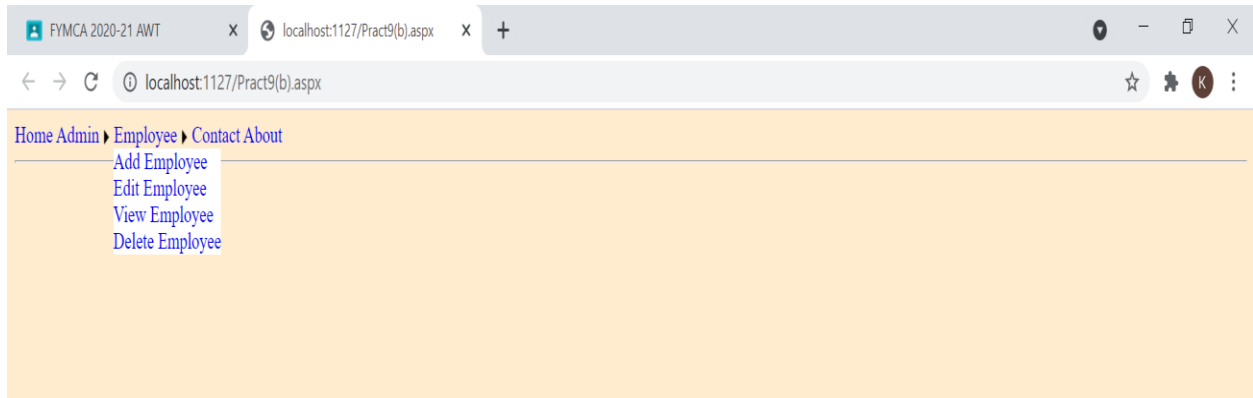
```
        </div>
    </form>
    <hr />
</body>
</html>
```

Output :

CROSSPAGE AND POST BACK

PRACTICAL NO. 10

Aim : Create ASP.NET Web Page to demonstrate postback and crosspage posting with all web controls.

Program :

postback.aspx

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

<!DOCTYPE html>

<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" Font-Size="14pt" Text="Name"></asp:Label>
 :
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
      <br />
      <br />
      <asp:Label ID="Label2" runat="server" Font-Size="14pt" Text="Email"></asp:Label>
 :
      <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
      <br />
      <br />
      <asp:Button ID="Button1" runat="server" PostBackUrl="~/postback1.aspx"
Text="CrossPage" />
  
      <br />
      <br />
      City :
      <asp:DropDownList ID="DropDownList1" runat="server">
      </asp:DropDownList>
      <br />
      <br />
      <asp:Button ID="Button2" runat="server" Text="PostBack" />
```

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

postback.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace BasicControl
{
    public partial class postback : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Page.IsPostBack != true)
            {
                addcity();
            }
            else
            {

            }

        }
        public void addcity()
        {
            DropDownList1.Items.Add("Mumbai");
            DropDownList1.Items.Add("Pune");
            DropDownList1.Items.Add("Surat");
            DropDownList1.Items.Add("Goa");
        }
    }
}
```

postback1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="postback1.aspx.cs"
Inherits="BasicControl.postback1" %>
```

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

      Name :
      <asp:Label ID="Label1" runat="server"></asp:Label>
      <br />
      <br />
      Email :
      <asp:Label ID="Label2" runat="server"></asp:Label>

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

postback1.aspx.cs

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

namespace BasicControl
{
   public partial class postback1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

         Page PreviousPage = Page.PreviousPage;
         if (PreviousPage != null)
         {
            Label1.Text = ((TextBox)PreviousPage.FindControl("TextBox1")).Text;
            Label2.Text = ((TextBox)PreviousPage.FindControl("TextBox2")).Text;
```

```
        }

    }
  }
}
```

Output :

Name : kartik

Email : kartikchopade90@gmail.co|

[CrossPage]

City : [Mumbai ∨]

[PostBack]

Name : kartik

Email : kartikchopade90@gmail.com

VALIDATION CONTROLS

PRACTICAL NO. 11

Aim : Create an Asp.net registration web page to accept input from the user and perform validation as mentioned below.

No	Input/ Control	Validation
1	Title (Drop Down)	Selection must be changed
2	First Name (Default value : Enter name)	Default value must be changed and only alphabets
3	Last Name	Only alphabets
4	Age	Between 18 to 40
5	Mobile Number	10 digit number
6	Password	Must be same as re-entered password
7	Re-enter Password	Must be the same as password
8	Email	Valid email address
9	Webpage URL	Valid internet URL

Note: All fields are required.

Program :

Pract11.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract11.aspx.cs"
Inherits="Practicals.Pract11" %>

<!DOCTYPE html>
  <html>
  <head>
     <title>Registration Page</title>
     <style type="text/css">
       .auto-style1
       {
          width: 336px;
       }
     </style>
  </head>
  <body>
     <form id="f1" method="post" runat="server">
       <fieldset style="width:975px">
       <legend>Registration Form</legend>
       <table>
          <tr>
```

```
            <td>First Name:</td><td> <asp:textbox id="txt1"
runat="server"></asp:textbox></td>
                <td class="auto-style1"> <asp:RequiredFieldValidator
ID="RequiredFieldValidator1" runat="server" ControlToValidate="txt1"
ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator>
<asp:RegularExpressionValidator ID="RegularExpressionValidator3" runat="server"
ForeColor="Red" ErrorMessage="* Enter only characters" ControlToValidate="txt1"
ValidationExpression="^[A-Za-z]*$" ></asp:RegularExpressionValidator></td>
        </tr>
        <tr>
            <td>Last Name:</td><td> <asp:textbox id="txt2" runat="server"
></asp:textbox></td>
                <td class="auto-style1"> <asp:RequiredFieldValidator
ID="RequiredFieldValidator2" runat="server" ControlToValidate="txt2"
ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator>
<asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"
ForeColor="Red" ErrorMessage="* Enter only characters" ControlToValidate="txt2"
ValidationExpression="^[A-Za-z]*$" ></asp:RegularExpressionValidator></td>
        </tr>
        <tr>
            <td>Age:</td><td> <asp:textbox id="age" runat="server"></asp:textbox></td>
                <td class="auto-style1"> <asp:RequiredFieldValidator
ID="RequiredFieldValidator3" runat="server" ControlToValidate="age"
ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator>
<asp:RangeValidator ID="RangeValidator1" runat="server" ErrorMessage="* Age must be
between 18 to 40" ControlToValidate="age" ForeColor="Red" MaximumValue="40"
MinimumValue="18"></asp:RangeValidator></td>
        </tr>
        <tr>
            <td>Mobile Number:</td><td><asp:textbox ID="mobile"
runat="server"></asp:textbox></td>
                <td class="auto-style1"> <asp:RequiredFieldValidator
ID="RequiredFieldValidator4" runat="server" ControlToValidate="mobile"
ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator>
<asp:RegularExpressionValidator ID="RegularExpressionValidator2" runat="server"
ControlToValidate="mobile" ForeColor="Red" ErrorMessage="* Enter Only 10 digit"
ValidationExpression="[0-9]{10}"></asp:RegularExpressionValidator> </td>
        </tr>
        <tr>
```

```
<td>Password:</td><td><asp:textbox ID="Textbox1" runat="server"
TextMode="Password"></asp:textbox></td>
        <td> <asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server"
ControlToValidate="Textbox1" ErrorMessage="Required!"
ForeColor="Red"></asp:RequiredFieldValidator> <asp:RegularExpressionValidator
ID="valPassword" runat="server" ForeColor="Red" ControlToValidate="Textbox1"
        ErrorMessage="* Enter Alphabet & numaric & Special character"
ValidationExpression="^([a-zA-Z0-9@#$%^&+=*]{6,30})$"
        ValidationGroup="RegisterCheck" CssClass="ValidationError" /> </td>
        </tr>
        <tr>
        <td>Re-enter Password: </td><td><asp:TextBox ID="Textbox2" runat="server"
TextMode="Password" ></asp:TextBox></td>
        <td class="auto-style1"> <asp:RequiredFieldValidator
ID="RequiredFieldValidator6" runat="server" ControlToValidate="Textbox2"
ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator>
<asp:CompareValidator ID="CompareValidator1" runat="server"
ControlToValidate="Textbox2" ForeColor="Red" CssClass="ValidationError"
ControlToCompare="Textbox1" ErrorMessage="* No Match" ToolTip="Password must be the
same" /></td>
        </tr>
        <tr>
        <td>Email: </td><td><asp:TextBox ID="email" runat="server" TextMode
="Email"></asp:TextBox></td>
        <td> <asp:RequiredFieldValidator ID="RequiredFieldValidator7" runat="server"
ControlToValidate="email" ErrorMessage="Required!"
ForeColor="Red"></asp:RequiredFieldValidator> <asp:RegularExpressionValidator
ID="RegularExpressionValidator4" runat="server" ForeColor="Red" ErrorMessage="* Check
Email Format" ControlToValidate="email" Display="Dynamic"  SetFocusOnError="True"
        ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-
.]\w+)*"></asp:RegularExpressionValidator></td>
        </tr>

        <tr>
        <td>Webpage Url:</td><td> <asp:textbox id="url"
runat="server"></asp:textbox></td>
        <td class="auto-style1"> <asp:RequiredFieldValidator
ID="RequiredFieldValidator8" runat="server" ControlToValidate="url"
ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator>
```

```
<asp:RegularExpressionValidator ID="RegularExpressionValidator5" runat="server"
ForeColor="Red"
            ValidationExpression="http(s)?://([\w-]+\.)+[\w-]+(/[\w- ./?%&=]*)?"
          ControlToValidate="url"
           ErrorMessage="Input valid Internet
URL!"></asp:RegularExpressionValidator></td>
      </tr>


        <tr>
          <td>Course: </td><td><asp:DropDownList ID="ddlCourse" runat="server"
datavaluefield="Course" Width="173px">
            <asp:ListItem text="Select Course" Value="-1"></asp:ListItem>
            <asp:ListItem Text ="BTech" Value ="0"></asp:ListItem>
            <asp:ListItem Text ="MCA" Value ="1"></asp:ListItem>
            <asp:ListItem Text ="MBA" Value="2"></asp:ListItem>
                  </asp:DropDownList></td>
          <td class="auto-style1"><asp:RequiredFieldValidator InitialValue="-1"
ID="validcourse" runat="server" ControlToValidate="ddlCourse" ErrorMessage="Required!"
ForeColor="Red"></asp:RequiredFieldValidator></td>
      </tr>
      <tr>
          <td><asp:Button ID="btn1" runat="server" Text="Submit"></asp:Button></td>
          <td><asp:Button ID="btn2" runat="server" Text="Reset"></asp:Button></td>
      </tr>
    </table>
   </fieldset>
  </form>
 </body>
</html>
```

Output :

Registration Form

First Name:	kartik
Last Name:	chopade
Age:	22
Mobile Number:	9067145519
Password:	••••••
Re-enter Password:	••••••
Email:	kartikchopade90@gmail.co
Webpage Url:	https://www.google.com
Course:	MCA

Submit   Reset

Registration Form

First Name:		Required!
Last Name:		Required!
Age:		Required!
Mobile Number:		Required!
Password:		Required!
Re-enter Password:		Required!
Email:		Required!
Webpage Url:		Required!
Course:	Select Course	Required!

Submit   Reset

Registration Form

First Name:	1234	* Enter only characters
Last Name:	1234	* Enter only characters
Age:	100	* Age must be between 18 to 40
Mobile Number:	90671455191234	* Enter Only 10 digit
Password:	•••	* Enter Alphabet & numaric & Special character
Re-enter Password:	•••••	* No Match
Email:	kartikchopade90gmail.com	* Check Email Format
Webpage Url:	https://www.google.	Input valid Internet URL!
Course:	MCA	

Submit   Reset

STRING HANDLING

PRACTICAL NO. 12

Aim : Design a webform Application to demonstrate following String functions & properties.

• ToUpper	• Remove	• Equals
• Verbatim	• ToLower	• LastIndexOf
• Length		

Program :

Pract12.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract12.aspx.cs"
Inherits="Practicals.Pract12" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
     <div>
        <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="Larger"
ForeColor="Blue" Text="String Functions"></asp:Label>
        <br />
        <br />
        <asp:Label ID="Label2" runat="server" Font-Bold="True" Font-Size="Large"
Text="Enter String : "></asp:Label>
 
        <asp:TextBox ID="TextBox1" runat="server" Height="17px"
Width="132px"></asp:TextBox>
        <br />
        <br />
        <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Result" />
        <br />
        <br />
        <asp:Label ID="Label3" runat="server" Font-Bold="True" Font-Size="Large"
ForeColor="Red"></asp:Label>
        <br />
```

```
        <asp:Label ID="Label4" runat="server" Font-Bold="True" Font-Size="Large"
ForeColor="Red"></asp:Label>
        <br />
        <asp:Label ID="Label5" runat="server" Font-Bold="True" Font-Size="Large"
ForeColor="Red"></asp:Label>
        <br />
        <asp:Label ID="Label6" runat="server" Font-Bold="True" Font-Size="Large"
ForeColor="Red"></asp:Label>
        <br />
        <asp:Label ID="Label7" runat="server" Font-Bold="True" Font-Size="Large"
ForeColor="Red"></asp:Label>
        <br />
        <asp:Label ID="Label8" runat="server" Font-Bold="True" Font-Size="Large"
ForeColor="Red"></asp:Label>
        <br />
        <asp:Label ID="Label9" runat="server" Font-Bold="True" Font-Size="Large"
ForeColor="Red"></asp:Label>
    </div>
   </form>
</body>
</html>
```

Pract12.aspx.cs

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

namespace Practicals
{
   public partial class Pract12 : System.Web.UI.Page
   {
     protected void Page_Load(object sender, EventArgs e)
     {

     }
     protected void Button1_Click(object sender, EventArgs e)
     {
       String s = TextBox1.Text;
```

```
        String s2 = @"Hello World";
        Label3.Text = "Upper String : " + s.ToUpper();
        Label4.Text = "Lower String : " + s.ToLower();
        Label5.Text = "Length of String : " + s.Length.ToString();
        Label6.Text = "Equals : " + s.Equals(s2).ToString();
        Label7.Text = "Verbatim : " + s;
        Label8.Text = "LastIndexOf 'o' : " + s.LastIndexOf('o').ToString();
        Label9.Text = "Remove : " + s.Remove(8);
    }
  }
}
```

Output :

String Functions

Enter String : Hello World

Result

Upper String : HELLO WORLD
Lower String : hello world
Length of String : 11
Equals : True
Verbatim : Hello World
LastIndexOf 'o' : 7
Remove : Hello Wo

MASTER PAGE CONCEPT

PRACTICAL NO. 13

Aim : Create ASP.NET Web Site to demonstrate the working of master page and content page.

Program :

MasterPage.master

```
<%@ Master Language="C#" AutoEventWireup="true" CodeFile="MasterPage.master.cs"
Inherits="Practicals.MasterPage" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <asp:ContentPlaceHolder ID="head" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body style="background-color:Skyblue";>
    <form id="form1" runat="server">
    <div>

        <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">

            <asp:HyperLink ID="HyperLink1" runat="server" Font-Size="18pt"
NavigateUrl="~/WebForm1.aspx">Home</asp:HyperLink>
       
            <asp:HyperLink ID="HyperLink2" runat="server" Font-Size="18pt"
NavigateUrl="~/Programs.aspx">Programs</asp:HyperLink>
       
            <asp:HyperLink ID="HyperLink3" runat="server" Font-Size="18pt"
NavigateUrl="~/About.aspx">About</asp:HyperLink>
       
            <asp:HyperLink ID="HyperLink4" runat="server" Font-Size="18pt"
NavigateUrl="~/Contact.aspx">Contact</asp:HyperLink>

        </asp:ContentPlaceHolder>
    </div>

    <div>
        <hr color="black" />
        <hr color="black"/>
    </div>

    <asp:ContentPlaceHolder ID="ContentPlaceHolder2" runat="server">
```

<h3>The .NET Framework is a software framework developed by Microsoft that runs primarily on Microsoft Windows. </h3>
<h3>It includes a large class library called Framework Class Library and provides language interoperability across several programming languages</h3>

</asp:ContentPlaceHolder>
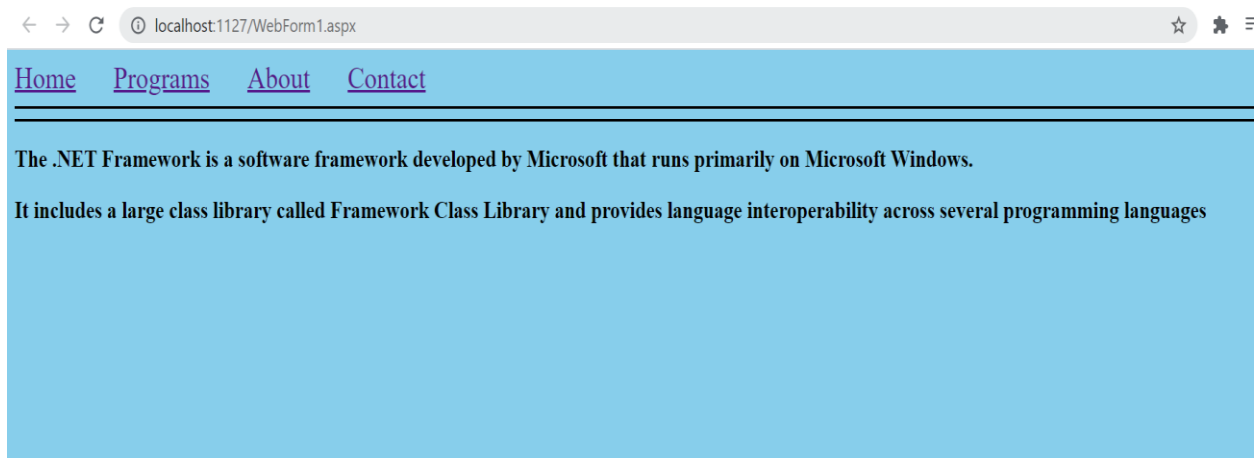
</form>

</body>
</html>

WebForm1.aspx

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master" AutoEventWireup="true" CodeFile="WebForm1.aspx.cs" Inherits="Practicals.WebForm1" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
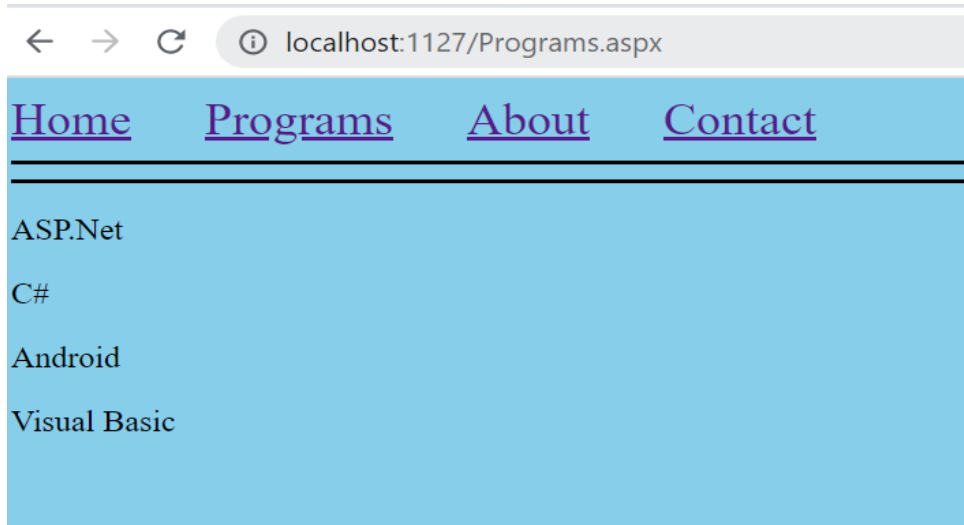
</asp:Content>

Output :

Programs.aspx

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master" AutoEventWireup="true" CodeFile="Programs.aspx.cs" Inherits="Practicals.WebForm4" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content3" ContentPlaceHolderID="ContentPlaceHolder2" runat="server">
<p>
ASP.Net&nbsp;</p>
<p>

    C#</p>
<p>
   Android</p>
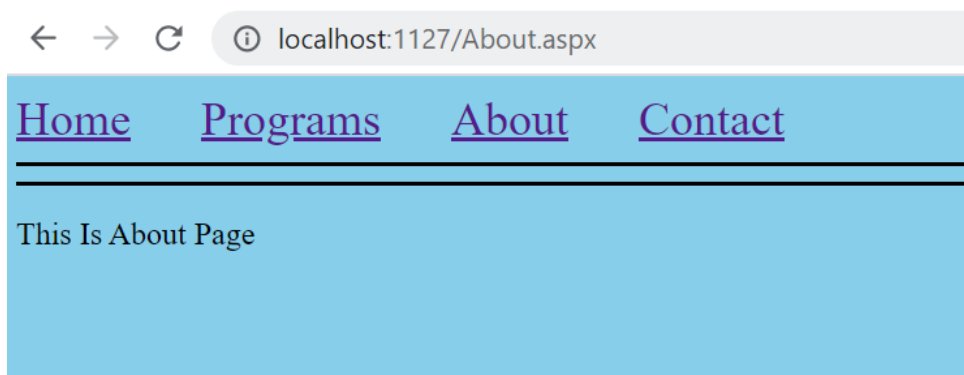<p>
   Visual Basic</p>
</asp:Content>

Output :

About.aspx

<% @ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master" AutoEventWireup="true" CodeFile="About.aspx.cs" Inherits="Practicals.WebForm2" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content3" ContentPlaceHolderID="ContentPlaceHolder2" runat="server">
  <p>
    This Is About Page</p>
</asp:Content>

Ouptut :

Contact.aspx

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master"
AutoEventWireup="true" CodeFile="Contact.aspx.cs" Inherits="Practicals.WebForm3" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
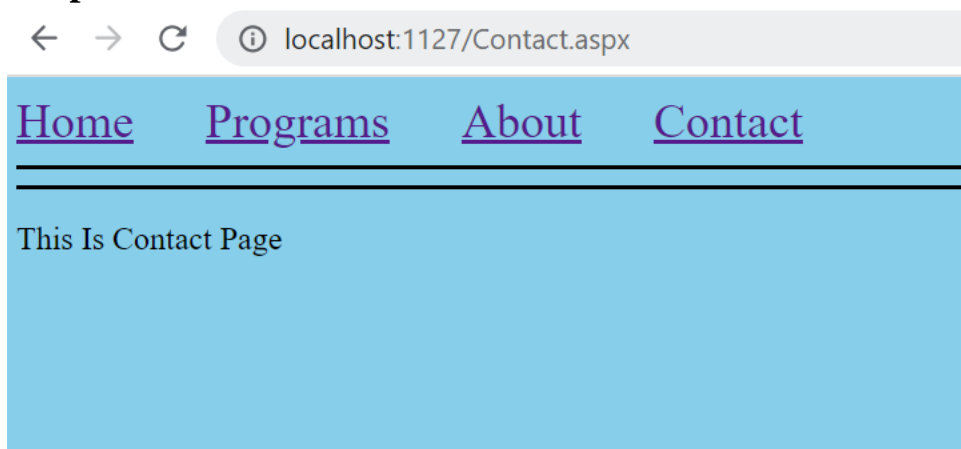<asp:Content ID="Content3" ContentPlaceHolderID="ContentPlaceHolder2" runat="server">
  <p>
    This Is Contact Page</p>
</asp:Content>

Output :

ADRotator

PRACTICAL NO. 14

Aim : Design an ASP.NET Application to Display Random Advertisements using ADRotator Control. Use XMLDataSource and images from my Pictures.

Program :

Advertisement.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Advertisement.aspx.cs"
Inherits="WebApplication2.Advertisement" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
   <style type="text/css">
   .Ad
   {
      height: 300px;
      width: 300px;
   }
   </style>

</head>
<body>
   <form id="form1" runat="server">
   <div>

      <asp:AdRotator ID="AdRotator1" runat="server" AdvertisementFile="~/XMLFile1.xml"
CssClass="Ad" />

      <br />
      <br />
      <br />

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

XMLFILE.xml

```xml
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
  <Ad>
    <ImageUrl>~/NINJA 400.jpg</ImageUrl>
    <NavigateUrl>http://www.google.com</NavigateUrl>
    <AlternateText>My Search</AlternateText>
    <Keyword>NINJA1</Keyword>
    <Impression>10</Impression>
  </Ad>
<Ad>
    <ImageUrl>~/KAWASAKI W800.jpg</ImageUrl>
    <NavigateUrl>http://www.google.com</NavigateUrl>
    <AlternateText>My Search</AlternateText>
    <Keyword>NINJA</Keyword>
    <Impression>20</Impression>
  </Ad>
<Ad>
    <ImageUrl>~/NINJA 650.jpg</ImageUrl>
    <NavigateUrl>http://www.google.com</NavigateUrl>
    <AlternateText>My Search</AlternateText>
    <Keyword>NINJA</Keyword>
    <Impression>30</Impression>
  </Ad>
</Advertisements>
```

AJAX

PRACTICAL NO. 15

Aim : Design an ASP.NET application using AJAX controls to change the banner image of your college website every 20 seconds.

Program :

Pract15.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract15.aspx.cs"
Inherits="Practicals.Pract15" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
     <div>
        <asp:ScriptManager ID="ScriptManager1" runat="server"></asp:ScriptManager>
        <asp:Timer ID="Timer1" runat="server" Interval="20000"
OnTick="Timer1_Tick"></asp:Timer>
        <asp:Image ID="Image1" runat="server" />
     </div>
   </form>
</body>
</html>
```

Pract15.aspx.cs

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

namespace Practicals
{
   public partial class Pract15 : System.Web.UI.Page
   {
     protected void Page_Load(object sender, EventArgs e)
     {
       if (!IsPostBack)
       {
          setImageUrl();
```

```
        }
    }
    protected void Timer1_Tick(object sender, EventArgs e)
    {
        setImageUrl();
    }

    public void setImageUrl()
    {
        Random r = new Random();
        int i = r.Next(1,4);
        Image1.ImageUrl = "~/image/" + i.ToString() + ".jpg";
    }
  }
}
```

Output :

PRACTICAL NO. 16

Aim: Design an ASP.NET application to Accept product details and store in a Table. Display all product details in a GridView. Show Paginated output in partial update using AJAX.

Program:

AjaxxPartialUpdate.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="AjaxxPartialUpdate.aspx.cs" Inherits="AWTLabSolution.AjaxxPartialUpdate"
%>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
     <div>
        <asp:ScriptManager ID="ScriptManager1" runat="server">
</asp:ScriptManager>
<div id="dvGrid" style="padding: 10px; width: 450px">
<asp:UpdatePanel ID="UpdatePanel1" runat="server">
   <ContentTemplate>
      <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="false"
OnRowDataBound="OnRowDataBound"
      DataKeyNames="ID" OnRowEditing="OnRowEditing"
OnRowCancelingEdit="OnRowCancelingEdit" PageSize = "3" AllowPaging ="true"
OnPageIndexChanging = "OnPaging"
      OnRowUpdating="OnRowUpdating" OnRowDeleting="OnRowDeleting"
EmptyDataText="No records has been added."
      Width="450">
      <Columns>
        <asp:TemplateField HeaderText="ProductName" ItemStyle-Width="150">
          <ItemTemplate>
             <asp:Label ID="lblName" runat="server" Text='<%# Eval("ProductName")
%>'></asp:Label>
          </ItemTemplate>
          <EditItemTemplate>
             <asp:TextBox ID="txtName" runat="server" Text='<%# Eval("ProductName")
%>' Width="140"></asp:TextBox>
          </EditItemTemplate>
```

```
        </asp:TemplateField>
        <asp:TemplateField HeaderText="Price" ItemStyle-Width="150">
          <ItemTemplate>
            <asp:Label ID="lblPrice" runat="server" Text='<%# Eval("Price")
%>'></asp:Label>
          </ItemTemplate>
          <EditItemTemplate>
            <asp:TextBox ID="txtPrice" runat="server" Text='<%# Eval("Price") %>'
Width="140"></asp:TextBox>
          </EditItemTemplate>
        </asp:TemplateField>
        <asp:CommandField ButtonType="Link" ShowEditButton="true"
ShowDeleteButton="true"
          ItemStyle-Width="150" />
      </Columns>
    </asp:GridView>
    <table border="1" cellpadding="0" cellspacing="0" style="border-collapse: collapse">
      <tr>
        <td style="width: 150px">
          Product Name:<br />
          <asp:TextBox ID="txtName" runat="server" Width="140" />
        </td>
        <td style="width: 150px">
          Price:<br />
          <asp:TextBox ID="txtPrice" runat="server" Width="140" />
        </td>
        <td style="width: 150px">
          <asp:Button ID="btnAdd" runat="server" Text="Add" OnClick="Insert" />
        </td>
      </tr>
    </table>
  </ContentTemplate>
</asp:UpdatePanel>
</div>
    </div>
  </form>
</body>
</html>
```

AjaxxPartialUpdate.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace AWTLabSolution
{
    public partial class AjaxxPartialUpdate : System.Web.UI.Page
    {

        protected void Page_Load(object sender, EventArgs e)
        {

            if (!this.IsPostBack)
            {
                this.BindGrid();
            }
        }
        private void BindGrid()
        {
            string constr = ConfigurationManager.ConnectionStrings["constr"].ConnectionString;
            string query = "SELECT * FROM Products";
            using (SqlConnection con = new SqlConnection(constr))
            {
                using (SqlDataAdapter sda = new SqlDataAdapter(query, con))
                {
                    using (DataTable dt = new DataTable())
                    {
                        sda.Fill(dt);
                        GridView1.DataSource = dt;
                        GridView1.DataBind();
                    }
                }
            }
```

```
    }

    protected void Insert(object sender, EventArgs e)
    {
      string name = txtName.Text;
      string Price = txtPrice.Text;
      txtName.Text = "";
      txtPrice.Text = "";
      string query = "INSERT INTO Products VALUES(@Name, @Price)";
      string constr = ConfigurationManager.ConnectionStrings["constr"].ConnectionString;
      using (SqlConnection con = new SqlConnection(constr))
      {
        using (SqlCommand cmd = new SqlCommand(query))
        {
          cmd.Parameters.AddWithValue("@Name", name);
          cmd.Parameters.AddWithValue("@Price", Price);
          cmd.Connection = con;
          con.Open();
          cmd.ExecuteNonQuery();
          con.Close();
        }
      }
      this.BindGrid();
    }
    protected void OnRowEditing(object sender, GridViewEditEventArgs e)
    {
      GridView1.EditIndex = e.NewEditIndex;
      this.BindGrid();
    }
    protected void OnRowUpdating(object sender, GridViewUpdateEventArgs e)
    {
      GridViewRow row = GridView1.Rows[e.RowIndex];
      int productid = Convert.ToInt32(GridView1.DataKeys[e.RowIndex].Values[0]);
      string name = (row.FindControl("txtName") as TextBox).Text;
      string Price = (row.FindControl("txtPrice") as TextBox).Text;
      string query = "UPDATE Products SET ProductName=@Name, Price=@Price WHERE
ID=@ProductId";
      string constr = ConfigurationManager.ConnectionStrings["constr"].ConnectionString;
      using (SqlConnection con = new SqlConnection(constr))
      {
```

```
        using (SqlCommand cmd = new SqlCommand(query))
        {
            cmd.Parameters.AddWithValue("@ProductId", productid);
            cmd.Parameters.AddWithValue("@Name", name);
            cmd.Parameters.AddWithValue("@Price", Price);
            cmd.Connection = con;
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
    }
    GridView1.EditIndex = -1;
    this.BindGrid();
}
protected void OnRowCancelingEdit(object sender, EventArgs e)
{
    GridView1.EditIndex = -1;
    this.BindGrid();
}
protected void OnRowDeleting(object sender, GridViewDeleteEventArgs e)
{
    int productid = Convert.ToInt32(GridView1.DataKeys[e.RowIndex].Values[0]);
    string query = "DELETE FROM Products WHERE ID=@ProductId";
    string constr = ConfigurationManager.ConnectionStrings["constr"].ConnectionString;
    using (SqlConnection con = new SqlConnection(constr))
    {
        using (SqlCommand cmd = new SqlCommand(query))
        {
            cmd.Parameters.AddWithValue("@ProductId", productid);
            cmd.Connection = con;
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
    }

    this.BindGrid();
}
protected void OnRowDataBound(object sender, GridViewRowEventArgs e)
{
```

```
        if (e.Row.RowType == DataControlRowType.DataRow && e.Row.RowIndex !=
GridView1.EditIndex)
        {
            (e.Row.Cells[2].Controls[2] as LinkButton).Attributes["onclick"] = "return
confirm('Do you want to delete this row?');";
        }
    }
    protected void OnPaging(object sender, GridViewPageEventArgs e)
    {
        GridView1.PageIndex = e.NewPageIndex;
        this.BindGrid();
    }
  }
}
```

Web.config

```xml
<?xml version="1.0" encoding="utf-8"?>
<!--
  For more information on how to configure your ASP.NET application, please visit
  https://go.microsoft.com/fwlink/?LinkId=169433
  -->
<configuration>
        <connectionStrings>
  <add name="constr" connectionString="Data Source=DESKTOP-MD44T59;Initial
Catalog=Practical;Integrated Security=True"
   providerName="System.Data.SqlClient" />
  <add name="hospitalreviewConnectionString" connectionString="Data
Source=.\sqlexpress;Initial Catalog=hospitalreview;Integrated Security=True"
   providerName="System.Data.SqlClient" />
 </connectionStrings>
 <system.web>
   <compilation debug="true" targetFramework="4.7.2" />
   <httpRuntime targetFramework="4.7.2" />
 <pages>
    <controls>
     <add tagPrefix="ajaxToolkit" assembly="AjaxControlToolkit"
namespace="AjaxControlToolkit" />
    </controls>
  </pages></system.web>
 <system.codedom>
   <compilers>
```

    <compiler language="c#;cs;csharp" extension=".cs"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4"
compilerOptions="/langversion:default /nowarn:1659;1699;1701" />
    <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4"
compilerOptions="/langversion:default /nowarn:41008 /define:_MYTYPE=\"Web\"
/optionInfer+" />
  </compilers>
 </system.codedom>
</configuration>

Output :

No records has been added.		
Product Name:	Price:	Add

ProductName	Price	
Pencil	10	Edit Delete
Product Name:	Price:	Add
pen	50	

ProductName	Price	
Pen	50	Edit Delete
Pencil	10	Edit Delete
Product Name:	Price:	Add

ProductName	Price	
Pencil	10	Edit Delete
Product Name:	Price:	Add

DATABASE

PRACTICAL NO. 17

Aim: Create an ASP.NET web application for storing employee details in a database named EMPDB. Perform following activities using ADO.NET. a. Create an table named Employee (empid, empname, empcity, empage) b. Add records in the Employee table from the user c. Display the employees who stay in a particular city and show the records in datagridview. Include all CRUD operations in the application. Make use of connected architecture of ADO.NET

Program:

Employee.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    <table border="1">
      <tr>
      <td><asp:Label ID="Label1" runat="server" Text="Enter Id :"></asp:Label></td>
      <td><asp:TextBox ID="TextBox1" runat="server"></asp:TextBox></td>
      </tr>
      <tr>
      <td><asp:Label ID="Label2" runat="server" Text="Enter Name :"></asp:Label></td>
      <td><asp:TextBox ID="TextBox2" runat="server"></asp:TextBox></td>
     </tr>
      <tr>
      <td><asp:Label ID="Label3" runat="server" Text="Enter City :"></asp:Label></td>
      <td><asp:TextBox ID="TextBox3" runat="server"></asp:TextBox></td>
      </tr>
      <tr>
      <td><asp:Label ID="Label4" runat="server" Text="Enter Age :"></asp:Label></td>
      <td><asp:TextBox ID="TextBox4" runat="server"></asp:TextBox></td>
      </tr>
      <tr>
```

```
    <td><asp:Button ID="Button1" runat="server" Text="Insert" OnClick="Button1_Click"
Width="80px" /></td>
    <td><asp:Button ID="Button2" runat="server" Text="Update" OnClick="Button2_Click"
/></td>
    </tr>
    <tr>
    <td><asp:Button ID="Button3" runat="server" Text="Delete" OnClick="Button3_Click"
/></td>
    <td><asp:Button ID="Button4" runat="server" Text="Search" OnClick="Button4_Click"
/></td>
    </tr>
    </table><br/>
    <br />
    <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
CellPadding="4" ForeColor="#333333" GridLines="None">
        <AlternatingRowStyle BackColor="White" />
        <Columns>
          <asp:BoundField DataField="empid" HeaderText="empid" SortExpression="empid"
/>
          <asp:BoundField DataField="empname" HeaderText="empname"
SortExpression="empname" />
          <asp:BoundField DataField="empcity" HeaderText="empcity"
SortExpression="empcity" />
          <asp:BoundField DataField="empage" HeaderText="empage"
SortExpression="empage" />
        </Columns>
        <FooterStyle BackColor="#990000" Font-Bold="True" ForeColor="White" />
        <HeaderStyle BackColor="#990000" Font-Bold="True" ForeColor="White" />
        <PagerStyle BackColor="#FFCC66" ForeColor="#333333" HorizontalAlign="Center" />
        <RowStyle BackColor="#FFFBD6" ForeColor="#333333" />
        <SelectedRowStyle BackColor="#FFCC66" Font-Bold="True" ForeColor="Navy" />
        <SortedAscendingCellStyle BackColor="#FDF5AC" />
        <SortedAscendingHeaderStyle BackColor="#4D0000" />
        <SortedDescendingCellStyle BackColor="#FCF6C0" />
        <SortedDescendingHeaderStyle BackColor="#820000" />
    </asp:GridView>

  </div>

  </form>
```

```
</body>
</html>
```

Employee.aspx.cs

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Data.Sql;
using System.Data;
namespace Database_Practicals
{
    public partial class employee : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                LoadRecord();
            }
        }
        SqlConnection con = new SqlConnection("Data Source=LAPTOP-QB0IREI0;Initial
Catalog=student;Integrated Security=True");
        protected void Button1_Click(object sender, EventArgs e)
        {
            try
            {
                con.Open();
                SqlCommand cmd = new SqlCommand("insert into student values(" +
int.Parse(TextBox1.Text) + ",'" + TextBox2.Text + "','" + TextBox3.Text + "'," +
int.Parse(TextBox4.Text) + ")", con);
                cmd.ExecuteNonQuery();
                con.Close();
                Response.Write("<script>alert('Successfully Inserted')</script>");
                LoadRecord();
            }
            catch (Exception e)
```

```
        {
          Response.Write("<script>alert('Some thing went wrong')</script>");
        }
      }

      void LoadRecord()
      {
        SqlCommand comm = new SqlCommand("select * from student", con);
        using (SqlDataAdapter sda = new SqlDataAdapter())
        {
          comm.Connection = con;
          sda.SelectCommand = comm;
          using (DataTable dt = new DataTable())
          {
            sda.Fill(dt);
            GridView1.DataSource = dt;
            GridView1.DataBind();
          }
        }
      }

      protected void Button2_Click(object sender, EventArgs e)
      {
        try
        {
          con.Open();
          SqlCommand c = new SqlCommand("update student set empname='" +
TextBox2.Text + "',empcity='" + TextBox3.Text + "',empage=" + int.Parse(TextBox4.Text) + "
where empid=" + TextBox1.Text + "", con);
          c.ExecuteNonQuery();
          con.Close();
          Response.Write("<script>alert('Sucessfully Updated')</script>");
          LoadRecord();
        }
        catch (Exception e)
        {
          Response.Write("<script>alert('Some thing went wrong')</script>");
        }
      }
```

```
protected void Button3_Click(object sender, EventArgs e)
{
    try
    {
        con.Open();
        SqlCommand c = new SqlCommand("delete student where empid=" +
int.Parse(TextBox1.Text) + "", con);
        c.ExecuteNonQuery();
        con.Close();
        Response.Write("<script>alert('Sucessfully Deleted')</script>");
        LoadRecord();
    }
    catch (Exception e)
    {
        Response.Write("<script>alert('Some thing Went Wrong')</script>");
    }
}

protected void Button4_Click(object sender, EventArgs e)
{
    con.Open();
    if (con.Equals(TextBox3.Text))
    {
        SqlCommand c = new SqlCommand("select * from student where empcity='" +
TextBox3.Text + "'", con);
        SqlDataReader r = c.ExecuteReader();
        while (r.Read())
        {
            TextBox1.Text = r.GetValue(0).ToString();
            TextBox2.Text = r.GetValue(1).ToString();
            TextBox3.Text = r.GetValue(2).ToString();
            TextBox4.Text = r.GetValue(3).ToString();
        }
        con.Close();
        Response.Write("<script>alert('Search Successfully')</script>");
    }
    else
    {
        Response.Write("<script>alert('Data not found')</script>");
    }
```

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

Output :
Insert

Enter Id :	5
Enter Name :	kartik
Enter City :	badlapur
Enter Age :	23
Insert	Update
Delete	Search

empid	empname	empcity	empage
4	ajit	mulund	23
2	aarush	badlapur	4
3	vinit	thane	23

empid	empname	empcity	empage
4	ajit	mulund	23
2	aarush	badlapur	4
3	vinit	thane	23
5	kartik chopade	badlapur	23

Update

Enter Id :	5
Enter Name :	kartik chopade
Enter City :	badlapur
Enter Age :	23
Insert	Update
Delete	Search

empid	empname	empcity	empage
4	ajit	mulund	23
2	aarush	badlapur	4
3	vinit	thane	23
5	kartik chopade	badlapur	23

Search

Enter Id :	
Enter Name :	
Enter City :	badlapur
Enter Age :	
Insert	Update
Delete	Search

Enter Id :	5
Enter Name :	kartik chopade
Enter City :	badlapur
Enter Age :	23
Insert	Update
Delete	Search

Delete

Enter Id :	5
Enter Name :	
Enter City :	
Enter Age :	
Insert	Update
Delete	Search

empid	empname	empcity	empage
4	ajit	mulund	23
2	aarush	badlapur	4
3	vinit	thane	23

PRACTICAL NO. 18

Aim: Design a Table in SQL Server with the fields specified in form. Design an Application as shown below using disconnected architecture of ADO.NET

Program:

WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="Pract18.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            text-align: center;
        }
        .auto-style2 {
            width: 340px;
            text-align: right;
        }
        .auto-style4 {
            text-align: center;
            width: 790px;
        }
        .auto-style8 {
            text-align: right;
        }
        .auto-style20 {
            width: 340px;
            text-align: right;
            height: 29px;
        }
        .auto-style22 {
            height: 29px;
        }
        .auto-style23 {
            text-align: right;
            height: 29px;
        }
        .auto-style24 {
            width: 790px;
```

```
      height: 29px;
   }
   .auto-style25 {
      width: 790px;
   }
   .auto-style26 {
      width: 790px;
      text-align: left;
      height: 29px;
   }
   .auto-style27 {
      width: 110px;
   }
   .auto-style28 {
      width: 110px;
      height: 29px;
   }
   .auto-style29 {
      width: 110px;
      height: 26px;
   }
   .auto-style30 {
      text-align: right;
      height: 26px;
   }
   .auto-style31 {
      width: 790px;
      height: 26px;
   }
   .auto-style32 {
      height: 26px;
   }
   </style>
</head>
<body>
   <form id="form1" runat="server">
      <div>
         <asp:Panel ID="Panel1" runat="server" BackColor="#CCCCFF" BorderColor="Black"
BorderStyle="Solid" >
```

```
<table style="width: 100%;background-color:CCCCFF ">
   <tr>
       <td class="auto-style27"> </td>
       <td class="auto-style2">
           </td>
       <td class="auto-style4">
          <asp:Label ID="Label23" runat="server" Font-Size="XX-Large" Font-
Underline="True" ForeColor="White" Text="Record" Font-Bold="True"></asp:Label>
            </td>

       <td class="auto-style1"> </td>

   </tr>
   <tr>
       <td class="auto-style27"> </td>
       <td class="auto-style2"> </td>
       <td class="auto-style25"> </td>

       <td> </td>

   </tr>
   <tr>
       <td class="auto-style27"> </td>
       <td class="auto-style2"><asp:Label ID="Id" runat="server"
Text="Id"></asp:Label>
          </td>
       <td class="auto-style25">
          <asp:TextBox ID="txtid" runat="server" Width="182px"
TextMode="Number"></asp:TextBox>
              
          </td>

       <td>
          <asp:Button ID="btninsert" runat="server" Height="41px"
OnClick="btninsert_Click" Text="Insert" Width="122px" />
          </td>

   </tr>
   <tr>
```

```
          <td class="auto-
style28">           &nbsp
;     </td>
            <td class="auto-style20">
              <asp:Label ID="Label1" runat="server" Text="Name:"></asp:Label>
               </td>
            <td class="auto-style26">
              <asp:TextBox ID="txtname" runat="server" Width="182px"></asp:TextBox>
            </td>
            <td class="auto-style22">
               </td>
        </tr>
        <tr>
             <td class="auto-style28"></td>
            <td class="auto-style20"><asp:Label ID="Label2" runat="server"
Text="City:"></asp:Label></td>
            <td class="auto-style26">


              <asp:TextBox ID="txtcity" runat="server" Width="182px"></asp:TextBox>


            </td>


            <td class="auto-style22">
              <asp:Button ID="btnupdate" runat="server" Height="41px"
OnClick="btnupdate_Click" Text="Update" Width="122px" />
              </td>

        </tr>
        <tr>
            <td class="auto-style28"></td>
            <td class="auto-style23">
        <asp:Label ID="Label20" runat="server" Text="Salary:"></asp:Label>
              </td>
            <td class="auto-style24">
              <asp:TextBox ID="txtsalary" runat="server" Width="188px"
MaxLength="8"></asp:TextBox>
              </td>
            <td class="auto-style22">
               </td>
```

```
        </tr>
        <tr>
          <td class="auto-style27"> </td>
          <td class="auto-style8"> </td>
          <td class="auto-style25">
             </td>
          <td>
            <asp:Button ID="btndelete" runat="server" Height="41px"
OnClick="btndelete_Click" Text="Delete" Width="122px" />
          </td>
        </tr>
        <tr>
          <td class="auto-style27"> </td>
          <td class="auto-style8"> </td>
          <td class="auto-style25">
            <asp:Button ID="btnFirst" runat="server" Text="First"  Height="41px"
Width="122px" OnClick="btnFirst_Click"/>
               
             
            
  
            <asp:Button ID="btnNext" runat="server" Text="Next" Height="41px"
Width="122px" OnClick="btnNext_Click" />
          </td>
          <td>
             </td>
        </tr>
        <tr>
          <td class="auto-style27"> </td>
          <td class="auto-style8"> </td>
          <td class="auto-style25">
             </td>
          <td>
             </td>
        </tr>
        <tr>
          <td class="auto-style27"> </td>
          <td class="auto-style8"> </td>
          <td class="auto-style25">
```

```
        <asp:Button ID="btnPrevious" runat="server" Text="Previous"  Height="41px"
Width="122px" OnClick="btnPrevious_Click"/>


             
             
     
        <asp:Button ID="btnLast" runat="server" Text="Last" Height="41px"
Width="122px" OnClick="btnLast_Click"/>
            </td>
        <td>
             </td>
    </tr>
    <tr>
        <td class="auto-style29"> </td>
        <td class="auto-style30"> </td>
        <td class="auto-style31">
             </td>
        <td class="auto-style32">
             </td>
    </tr>
    <tr>
        <td class="auto-style29"></td>
        <td class="auto-style30"></td>
        <td class="auto-style31">
        <asp:GridView ID="GridView1" runat="server" BackColor="White"
BorderColor="#DEDFDE" BorderStyle="None" BorderWidth="1px" CellPadding="4"
ForeColor="Black" GridLines="Vertical" Visible="False" Width="407px">
            <AlternatingRowStyle BackColor="White" />
            <FooterStyle BackColor="#CCCC99" />
            <HeaderStyle BackColor="#6B696B" Font-Bold="True" ForeColor="White"
/>
            <PagerStyle BackColor="#F7F7DE" ForeColor="Black"
HorizontalAlign="Right" />
            <RowStyle BackColor="#F7F7DE" />
            <SelectedRowStyle BackColor="#CE5D5A" Font-Bold="True"
ForeColor="White" />
            <SortedAscendingCellStyle BackColor="#FBFBF2" />
            <SortedAscendingHeaderStyle BackColor="#848384" />
            <SortedDescendingCellStyle BackColor="#EAEAD3" />
            <SortedDescendingHeaderStyle BackColor="#575357" />
```

```
            </asp:GridView>
          </td>
          <td class="auto-style32"></td>
        </tr>
        <tr>
          <td class="auto-style27"> </td>
          <td class="auto-style8"> </td>
          <td class="auto-style25"> </td>
          <td> </td>
        </tr>
        <tr>
          <td class="auto-style27"> </td>
          <td class="auto-style8"> </td>
          <td class="auto-style25">
            <asp:Label ID="lbldisplay" runat="server"></asp:Label>
          </td>
          <td> </td>
        </tr>
        <tr>
          <td class="auto-style27"> </td>
          <td class="auto-style8"> </td>
          <td class="auto-style25"> </td>
          <td> </td>
        </tr>
        <tr>
          <td class="auto-style27"> </td>
          <td class="auto-style8"> </td>
          <td class="auto-style25">
            <asp:ScriptManager ID="ScriptManager1" runat="server">
            </asp:ScriptManager>
          </td>
          <td>
             </td>
        </tr>
      </table>
    </div>

    </asp:panel>
  </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;
using System.Data.Sql;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
namespace Pract18
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        string strcon =
ConfigurationManager.ConnectionStrings["EmpdbConnectionString"].ConnectionString;
        SqlConnection con;
        SqlCommand cmd;
        SqlDataAdapter da;
        protected void Page_Load(object sender, EventArgs e)
        {

            ValidationSettings.UnobtrusiveValidationMode = UnobtrusiveValidationMode.None;
        }
        protected void btninsert_Click(object sender, EventArgs e)
        {
          con = new SqlConnection(strcon);
          try
          {
            cmd = new SqlCommand("insert into Emp_record
values(@Id,@Name,@City,@Salary)", con);
            cmd.Parameters.AddWithValue("@Id", txtid.Text);
            cmd.Parameters.AddWithValue("@Name", txtname.Text);
            cmd.Parameters.AddWithValue("@City", txtcity.Text);
            cmd.Parameters.AddWithValue("@Salary", txtsalary.Text);

            con.Open();
            int c = cmd.ExecuteNonQuery();
            if (c > 0)
```

```csharp
        {

          lbldisplay.Text = "Data inserted  Successfully";
          lbldisplay.ForeColor = System.Drawing.Color.Green;

        }
        else
        {
          lbldisplay.Text = "Sorry failed to insert ";
          lbldisplay.ForeColor = System.Drawing.Color.Red;
        }

      }
      catch (Exception ex)
      {
        Response.Write(ex.Message);
      }
      finally
      {
        con.Close();
      }
    }

    protected void btnupdate_Click(object sender, EventArgs e)
    {
      con = new SqlConnection(strcon);
      try
      {
        cmd = new SqlCommand("update Emp_record set
Name=@Name,City=@City,Salary=@Salary where Id=@Id", con);
        cmd.Parameters.AddWithValue("@Id", txtid.Text);
        cmd.Parameters.AddWithValue("@Name", txtname.Text);
        cmd.Parameters.AddWithValue("@City", txtcity.Text);
        cmd.Parameters.AddWithValue("@Salary", txtsalary.Text);

        con.Open();
        int c = cmd.ExecuteNonQuery();
        if (c > 0)
        {
```

```
         lbldisplay.Text = "Data Updated  Successfully";
         lbldisplay.ForeColor = System.Drawing.Color.Green;


      }
      else
      {
         lbldisplay.Text = "Sorry failed to Update ";
         lbldisplay.ForeColor = System.Drawing.Color.Red;
      }


   }
   catch (Exception ex)
   {
      Response.Write(ex.Message);
   }
   finally
   {
      con.Close();
   }
}

protected void btndelete_Click(object sender, EventArgs e)
{
   con = new SqlConnection(strcon);
   try
   {
      cmd = new SqlCommand("delete from  Emp_record where Id=@Id", con);
      cmd.Parameters.AddWithValue("@Id", txtid.Text);
      con.Open();
      int c = cmd.ExecuteNonQuery();
      if (c > 0)
      {

         lbldisplay.Text = "Data Deleted Successfully";
         lbldisplay.ForeColor = System.Drawing.Color.Green;


      }
      else
      {
         lbldisplay.Text = "Sorry failed to Delete. Empid not present  ";
```

```
        lbldisplay.ForeColor = System.Drawing.Color.Red;
      }



    }
    catch (Exception ex)
    {
      Response.Write(ex.Message);
    }
    finally
    {
      con.Close();
    }
  }

  protected void btnFirst_Click(object sender, EventArgs e)
  {
    con = new SqlConnection(strcon);
    GridView1.Visible = true;
    SqlDataAdapter da = new SqlDataAdapter("select TOP 1 * from Emp_record order by Id
ASC  ", con);
    DataSet ds = new DataSet();
    da.Fill(ds);
    GridView1.DataSource = ds;
    GridView1.DataBind();
    GridView1.RowStyle.HorizontalAlign = HorizontalAlign.Center;

  }

  protected void btnNext_Click(object sender, EventArgs e)
  {

    con = new SqlConnection(strcon);
    GridView1.Visible = true;
    cmd = new SqlCommand();
    cmd.Connection = con;
    cmd.CommandText = "select * from Emp_record  where Id = (select min(Id) from
Emp_record where id > @Id)";
    cmd.Parameters.AddWithValue("@Id", txtid.Text);
```

```
cmd.CommandType = CommandType.Text;
try
{
    da = new SqlDataAdapter();
    DataSet ds = new DataSet();
    da.SelectCommand = cmd;
    da.Fill(ds);
    GridView1.DataSource = ds.Tables[0];
    GridView1.DataBind();
    GridView1.RowStyle.HorizontalAlign = HorizontalAlign.Center;


}
catch (Exception ex)
{
    Response.Write(ex.Message);
}
finally
{
    con.Close();
}

}

protected void btnLast_Click(object sender, EventArgs e)
{
    con = new SqlConnection(strcon);
    GridView1.Visible = true;
    da = new SqlDataAdapter("select TOP 1 * from Emp_record order by Id DESC  ", con);
    DataSet ds = new DataSet();
    da.Fill(ds);
    GridView1.DataSource = ds;
    GridView1.DataBind();
    GridView1.RowStyle.HorizontalAlign = HorizontalAlign.Center;
}

protected void btnPrevious_Click(object sender, EventArgs e)
{
    con = new SqlConnection(strcon);
    GridView1.Visible = true;
```

```
cmd = new SqlCommand();
cmd.Connection = con;
cmd.CommandText = "select * from Emp_record  where Id = (select max(Id) from
Emp_record  where id < @Id)";
cmd.Parameters.AddWithValue("@Id", txtid.Text);
cmd.CommandType = CommandType.Text;
try
{
    da = new SqlDataAdapter();
    DataSet ds = new DataSet();
    da.SelectCommand = cmd;
    da.Fill(ds);
    GridView1.DataSource = ds.Tables[0];
    GridView1.DataBind();
    GridView1.RowStyle.HorizontalAlign = HorizontalAlign.Center;

}
catch (Exception ex)
{
    Response.Write(ex.Message);
}
finally
{
    con.Close();
}

        }
    }
}
```

Output:

Record

Id 4

Name: Ajit Gupta

City: Thane

Salary: 900000

Insert

Update

Delete

First | Next

Previous | Last

Id	Name	City	Salary
3	vinit damodar	thane	80000

Record

Id

Name:

City:

Salary:

Insert

Update

Delete

First | Next

Previous | Last

Id	Name	City	Salary
1	kartik	mumbai	100000

Record

Id

Name:

City:

Salary:

Insert

Update

Delete

First | Next

Previous | Last

Id	Name	City	Salary
4	Ajit Gupta	Thane	900000

Data inserted Successfully

STORED PROCEDURE

Practical No. 19

Aim: Design a webpage to demonstrate the working of a simple and parameterized stored procedure.

Program:

Pract19.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract19.aspx.cs"
Inherits="Database_Practicals.Pract19" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
   <div>
           <asp:GridView ID="GridView1" runat="server"></asp:GridView>
   </div>
   </form>
</body>
</html>
```

Pract19.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
namespace Database_Practicals
{
   public partial class Pract19 : System.Web.UI.Page
   {
     protected void Page_Load(object sender, EventArgs e)
     {
        string str = "Data Source=LAPTOP-QB0IREI0;Initial Catalog=storedb;Integrated
Security=True";
        SqlConnection conn = new SqlConnection(str);
        SqlCommand cmd = new SqlCommand("getcontacts",conn);
        cmd.CommandType=CommandType.StoredProcedure;
```

```
SqlDataAdapter da=new SqlDataAdapter();
da.SelectCommand = cmd;
DataSet ds=new DataSet();
da.Fill(ds, "contacts");
this.GridView1.DataSource = ds;
this.GridView1.DataBind();


        }
    }
}
```

Output:

localhost:1030/Pract19.aspx

fname	lname
ajit	gupta
bhushan	babhal
gaurav	bamugade
kartik	chopade
vinit	damodar

STATE MANAGEMENT

Practical No. 20

Aim: Design web applications using client side session management techniques.

Program:

Pract22.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract22.aspx.cs"
Inherits="Practicals.Pract22" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
     <div>
        <table>
     <tr>
        <td>
          Name
        </td>
        <td>
          <asp:TextBox ID="TxtName" runat="server"></asp:TextBox>
        </td>
        <td>
          <asp:Button ID="BtnRedirect" runat="server" Text="Submit"
OnClick="BtnRedirect_Click" />
        </td>
     </tr>

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

Pract22.aspx.cs

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

```
namespace Practicals
{
    public partial class Pract22 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void BtnRedirect_Click(object sender, EventArgs e)
        {
            Session["UserName"] = TxtName.Text;
            Response.Redirect("Pract22(1).aspx");
        }
    }
}
```

Pract22(1).aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract22(1).aspx.cs"
Inherits="Practicals.Pract22_1_" %>
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="LblName" runat="server"></asp:Label>
        </div>
    </form>
</body>
</html>
```
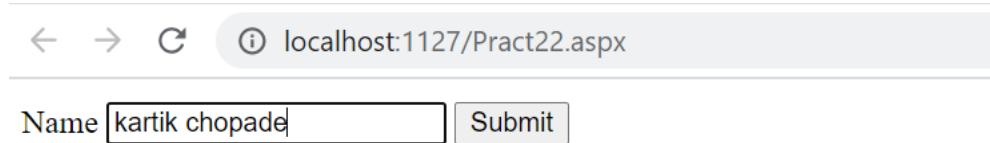
Pract22(1).aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Practicals
{
    public partial class Pract22_1_ : System.Web.UI.Page
```

```
    {
       protected void Page_Load(object sender, EventArgs e)
       {

          if (!Page.IsPostBack)
          {
             if (Session["UserName"] != null)
             {
                LblName.Text = Convert.ToString(Session["UserName"]);
             }
             else
             {
                LblName.Text = "Guest User!!";
             }
          }
       }
    }
}
```
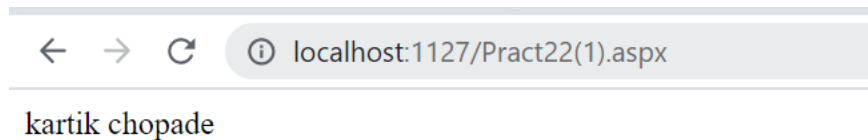
Output:

Name kartik chopade   Submit

localhost:1127/Pract22.aspx

localhost:1127/Pract22(1).aspx

kartik chopade

ANGULARJS
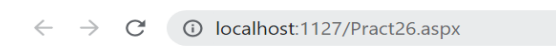
Practical No. 21

Aim: create an ASP.NET webpage to display the utilization of angular js.

Program:
Pract26.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Pract26.aspx.cs"
Inherits="Practicals.Pract26" %>
<!DOCTYPE html>
<html>
<head>
   <meta charset="utf-8" />
   <title>AngularJS Begin</title>
   <script src="Angularjs/angular.min.js"></script>
</head>
<body ng-app>
   <h2>Arithmetic Expression In Angularjs</h2> <br />
   <h3>Addition</h3>
   10 + 20 = {{10+20}}
   <br /><h3>Subtraction</h3>
   30 - 20 = {{30-20}}
   <br /><h3>Multiply</h3>
   10 * 20 = {{10*20}}
   <br /><h3>Division</h3>
   20 / 10 = {{20/10}}
</body>
</html>
```

Output:

localhost:1127/Pract26.aspx

Arithmetic Expression In Angularjs

Addition

10 + 20 = 30

Subtraction

30 - 20 = 10

Multiply

10 * 20 = 200

Division

20 / 10 = 2

WEB SERVICES AND WCF

Practical No.22

Aim: Design a web service to fetch details of customer table using connected ADO.NET. Design a web client to show contents of table in a GridView.

Program:

Service.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;
using System.Data;
using System.Configuration;
using System.Data.SqlClient;
namespace AWTLabSolution
{
    /// <summary>
    /// Summary description for Service
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    // 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 Service : System.Web.Services.WebService
    {

        [WebMethod]
        public string HelloWorld()
        {
            return "Hello World";
        }

        [WebMethod]
        public DataTable Get()
        {
            string constr = ConfigurationManager.ConnectionStrings["constr"].ConnectionString;
            using (SqlConnection con = new SqlConnection(constr))
            {
```

```csharp
        using (SqlCommand cmd = new SqlCommand("SELECT * FROM Customers"))
        {
          using (SqlDataAdapter sda = new SqlDataAdapter())
          {
            cmd.Connection = con;
            sda.SelectCommand = cmd;
            using (DataTable dt = new DataTable())
            {
              dt.TableName = "Customers";
              sda.Fill(dt);
              return dt;
            }
          }
        }
      }
    }

    [WebMethod]
    public void Insert(string name, string country)
    {
      string constr = ConfigurationManager.ConnectionStrings["constr"].ConnectionString;
      using (SqlConnection con = new SqlConnection(constr))
      {
        using (SqlCommand cmd = new SqlCommand("INSERT INTO Customers (Name,
Country) VALUES (@Name, @Country)"))
        {
          cmd.Parameters.AddWithValue("@Name", name);
          cmd.Parameters.AddWithValue("@Country", country);
          cmd.Connection = con;
          con.Open();
          cmd.ExecuteNonQuery();
          con.Close();
        }
      }
    }
  }
}
```

WebServiceCustomers.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebServiceCustomers.aspx.cs"
Inherits="AWTLabSolution.WebServiceCustomers" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
    <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="false"
DataKeyNames="CustomerId"
    EmptyDataText="No records has been added.">
    <Columns>
        <asp:TemplateField HeaderText="Name" ItemStyle-Width="150">
            <ItemTemplate>
                <asp:Label ID="lblName" runat="server" Text='<%# Eval("Name")
%>'></asp:Label>
            </ItemTemplate>
        </asp:TemplateField>
        <asp:TemplateField HeaderText="Country" ItemStyle-Width="150">
            <ItemTemplate>
                <asp:Label ID="lblCountry" runat="server" Text='<%# Eval("Country")
%>'></asp:Label>
            </ItemTemplate>
        </asp:TemplateField>
    </Columns>
</asp:GridView>
<table border="1" cellpadding="0" cellspacing="0" style="border-collapse: collapse">
    <tr>
        <td style="width: 150px">
            Name:<br />
            <asp:TextBox ID="txtName" runat="server" Width="140" />
        </td>
        <td style="width: 150px">
            Country:<br />
            <asp:TextBox ID="txtCountry" runat="server" Width="140" />
        </td>
```

```
      <td style="width: 100px">
        <asp:Button ID="btnAdd" runat="server" Text="Add" OnClick="Insert" />
      </td>
    </tr>
</table>
      </div>
    </form>
</body>
</html>
```

WebServiceCustomers.aspx.cs

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

namespace AWTLabSolution
{
    public partial class WebServiceCustomers : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!this.IsPostBack)
            {
                this.BindGrid();
            }
        }

        private void BindGrid()
        {
            Service service = new Service();
            GridView1.DataSource = service.Get();
            GridView1.DataBind();
        }

        protected void Insert(object sender, EventArgs e)
        {
            Service service = new Service();
            service.Insert(txtName.Text.Trim(), txtCountry.Text.Trim());
```

```
        this.BindGrid();
    }


    }
}
```

Output:

No records has been added.		
Name:	Country:	Add
Kartik	India	

Name	**Country**
Kartik	India
Name:	Country:
Kartik	India

Name kartik Submit

kartik