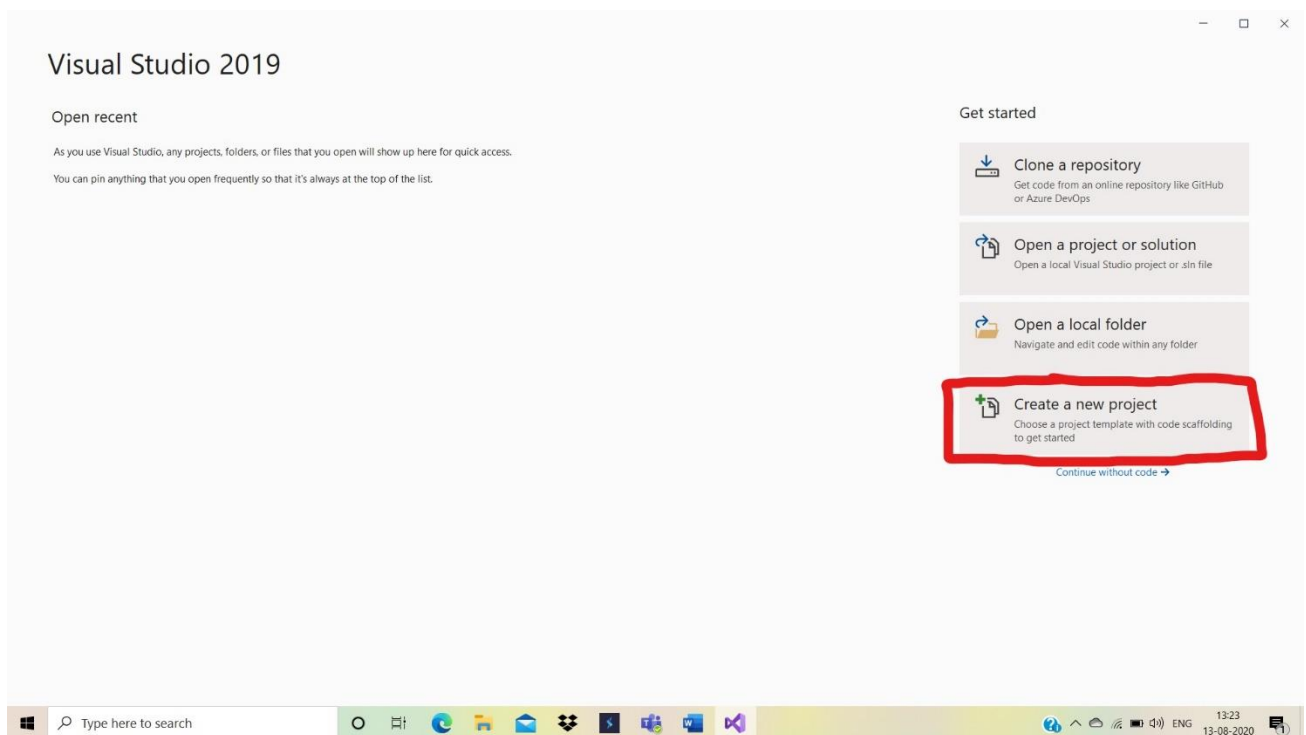# Practical : 1

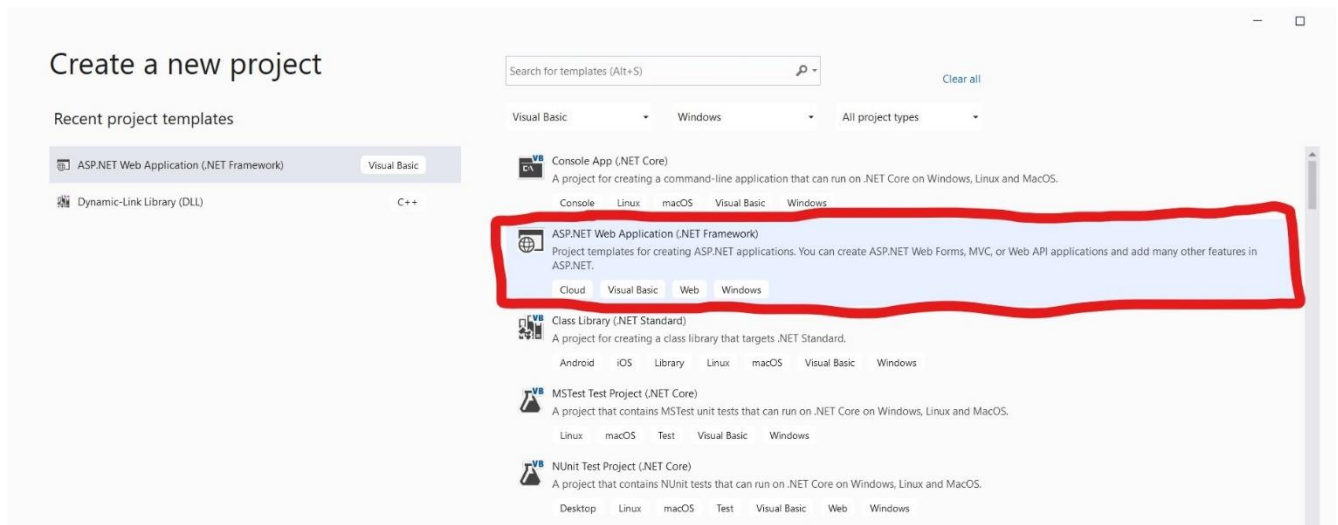**Aim:** Getting acquainted with Visual Studio environment.
(create new web project, open existing web project, building website, and study of toolbars, menu etc.)

1) Create a new project in Visual Studio

Step 1: Open visual studio and click on " Create a new project ".

Step 2: Choose " ASP .NET Web Application (.Net Framework) " and click on next.

Step 3: Name your project and set its location. And then click on "Create".

Step 4: Select "Empty" and click on create.

Step 5: Following screen will be shown which indicates you created your project successfully.
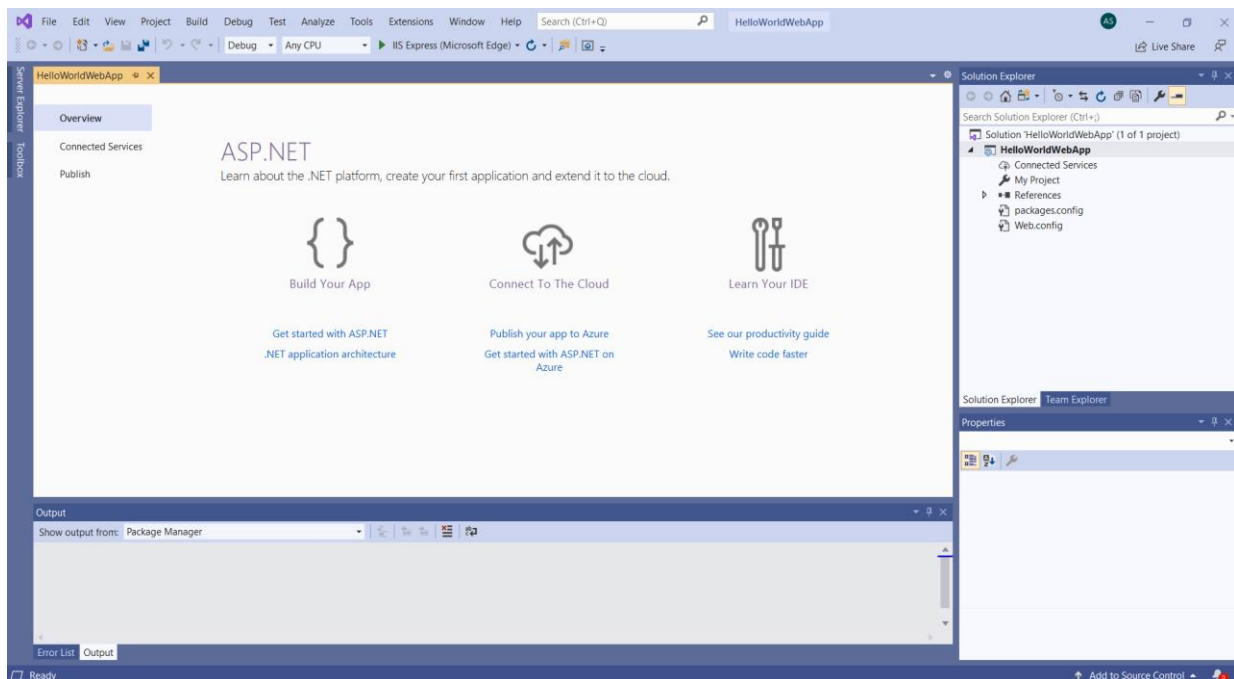
2) Open existing project.

Step 1: Open visual studio. If you have any recent projects opened they will be shown in recent tabs you can simply click on them and open them. If you do not have any existing project click on "Open existing Project".
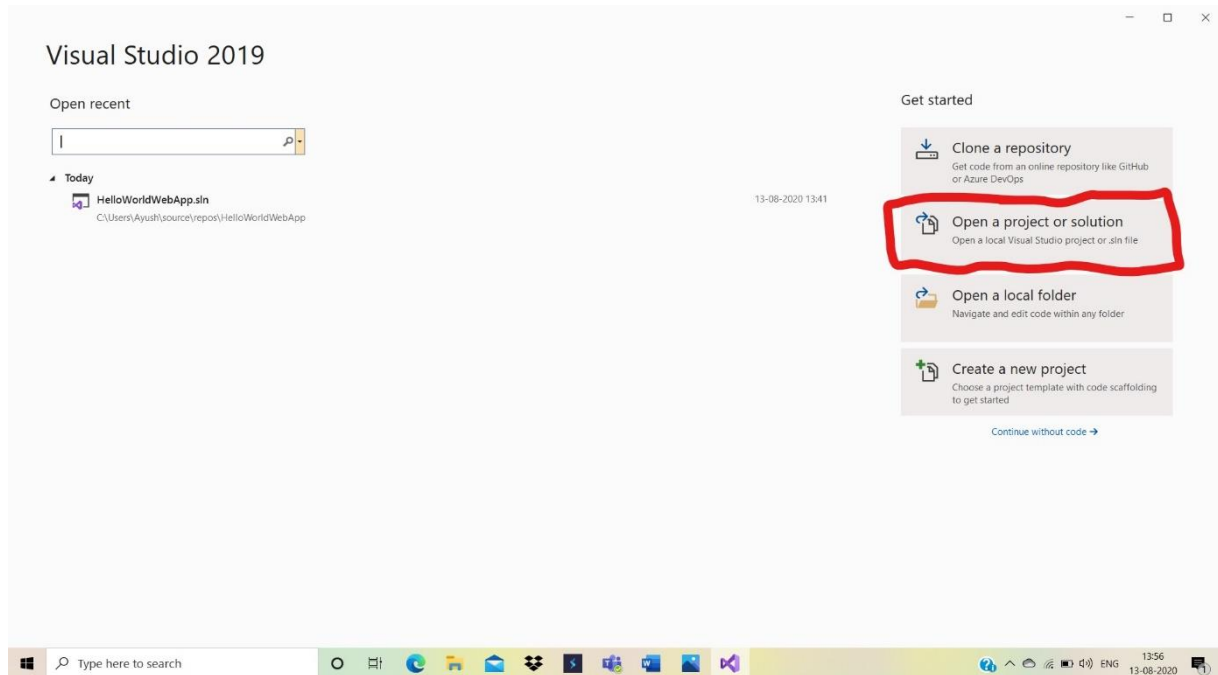
Step 2: Navigate to the folder where you created your project.
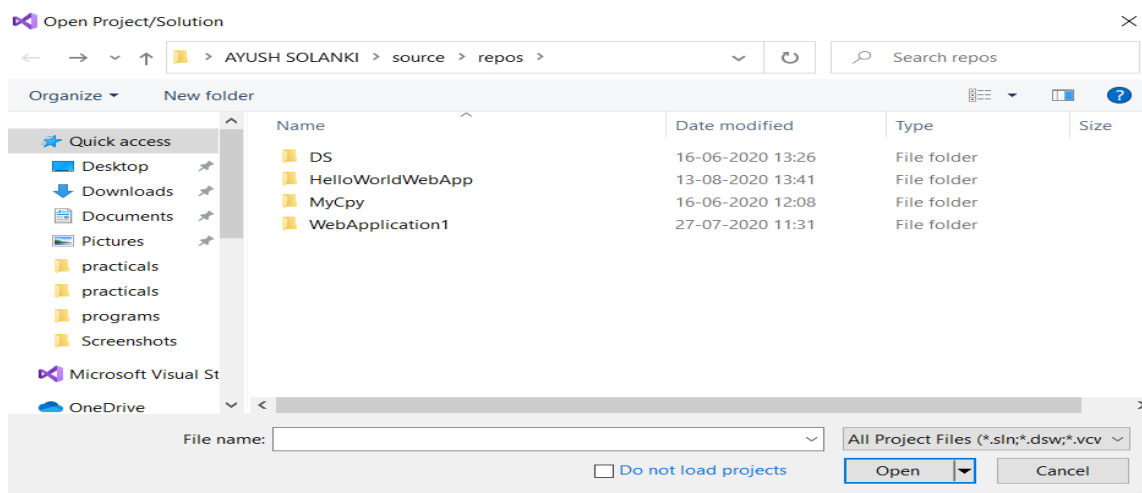
Step 3: Click and open .sln file of your project.
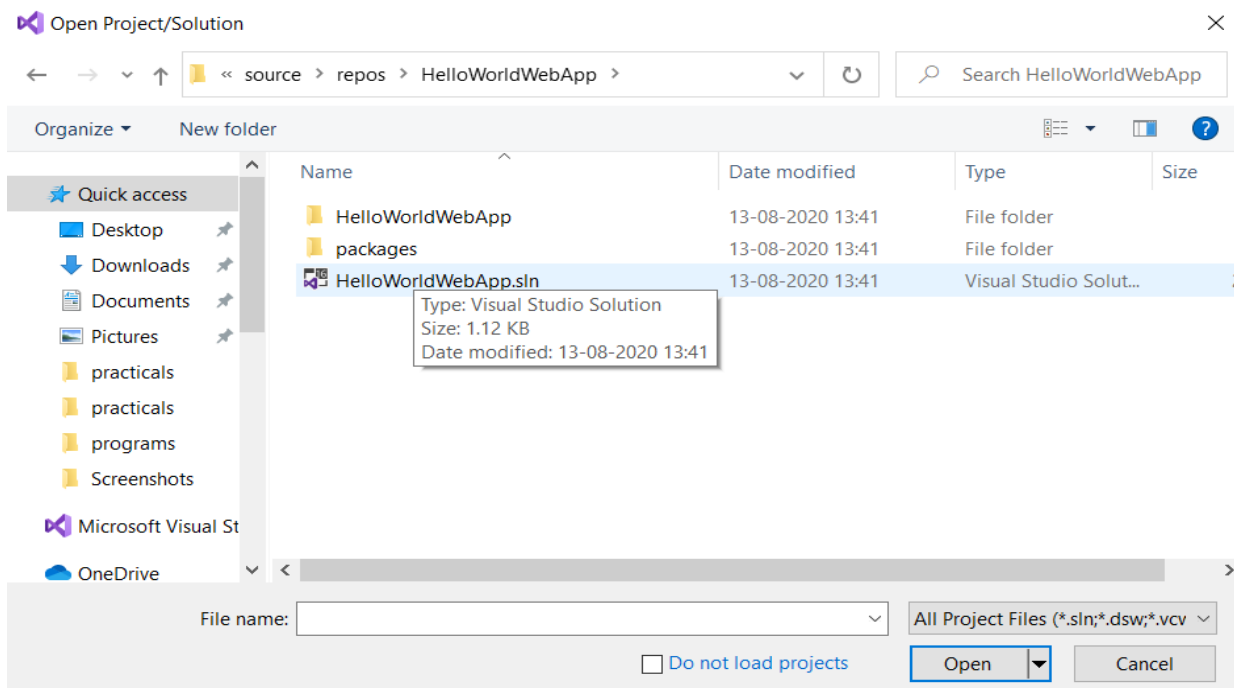
Step 4: Following screen will be shown and hence your project will be opened.
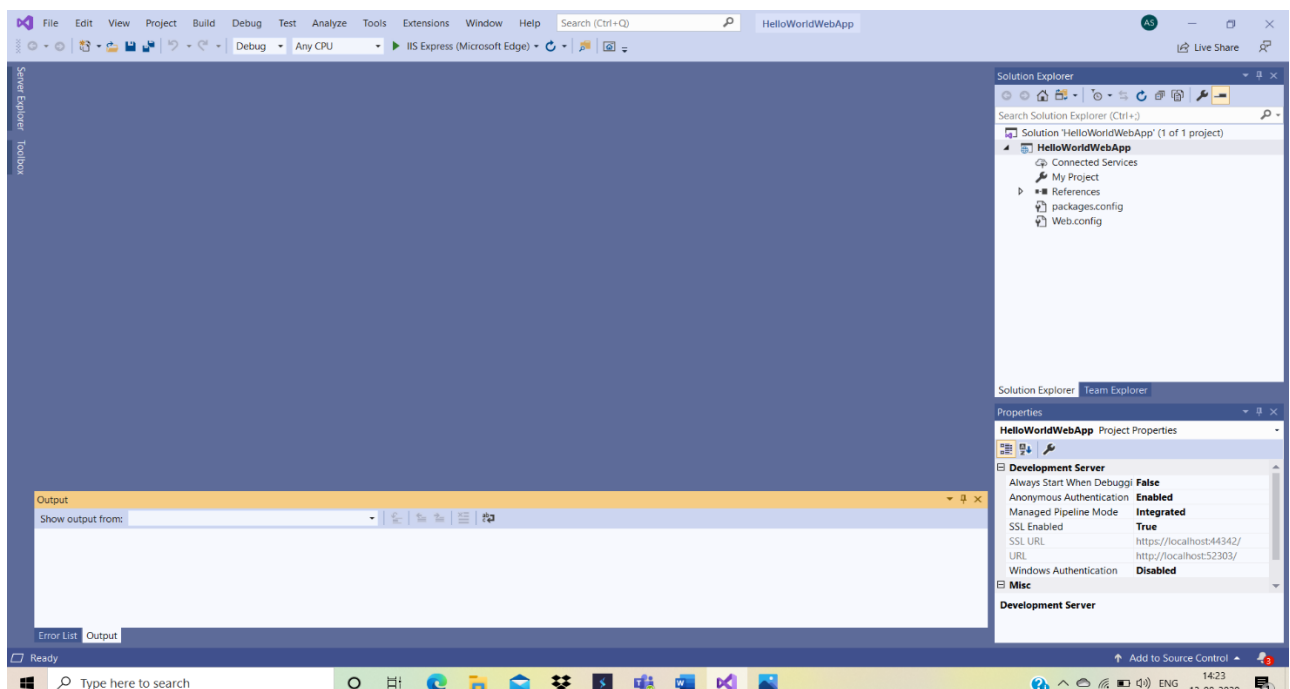
3) Solution Explorer and Server Explorer.

Solution Explorer

On the right side of the screen of visual studio there will be a solution explorer which will show you all the files in your project. You can add, delete and rename files and folders of your project using this solution explorer. You can see some references which will contain .dll files for your project. You can open any file in your editor thorugh this tab.
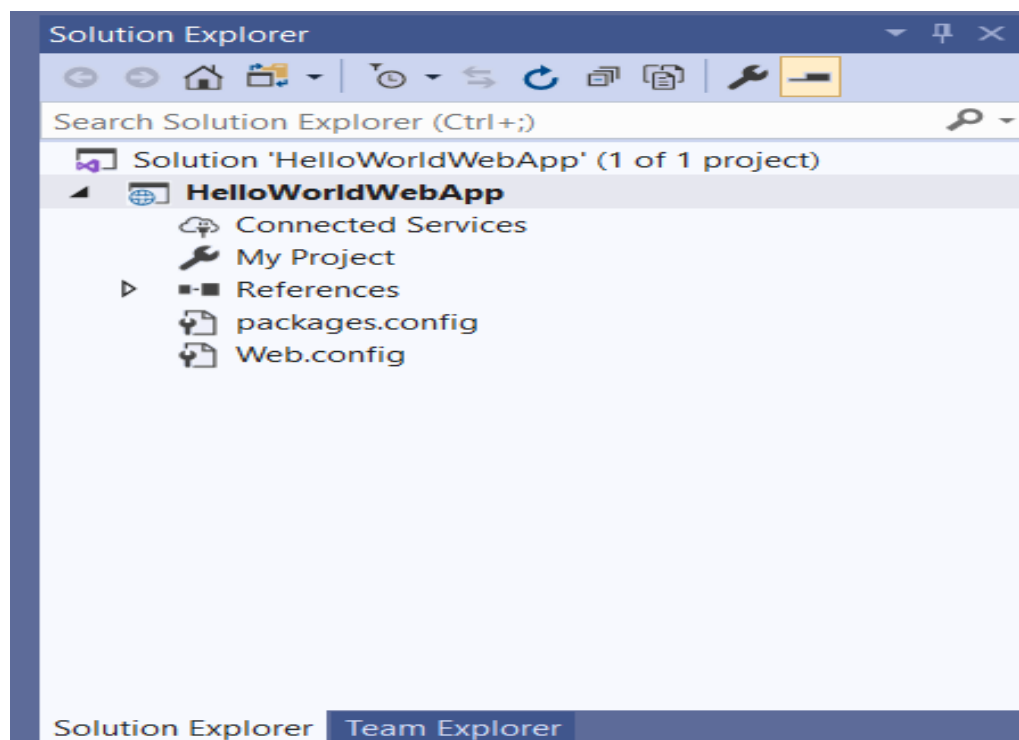
Server Explorer

Server explorer is found on leftmost part of visual studio IDE. Server explorer is a tab which will contain configurations regarding your server. You can edit your server configurations in this tab. There are three main nodes in the above window. The Data Connections node allow us to connect to a database. Once connected, it will enable us to create, browse, and modify database objects such as tables, views, and stored procedures. When we add a new connection, we can connect to various types of databases such as SQL Server, Access, Oracle, and ODBC data sources. The Servers node allows us to access all servers connected to our computer. This tool allows us to do administrative tasks such as viewing Event Logs and managing Windows Services. The Azure node allows us to access virtual machines hosted in Azure, while SharePoint Connections node allows us to browse SharePoint sites as well as data connections.
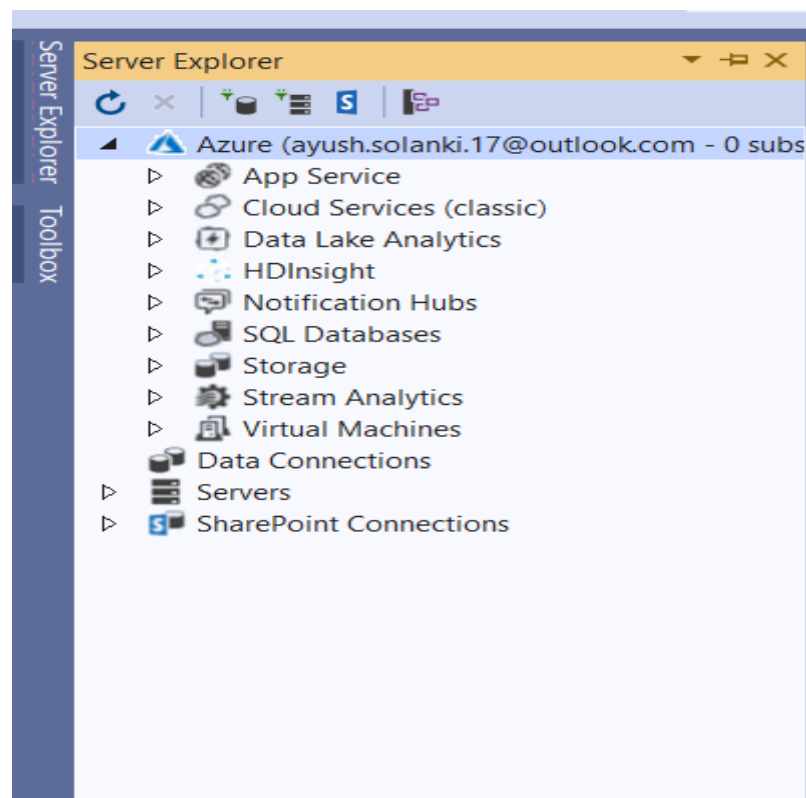
Practical : 2

Aim: Develop simple application using .net facility.

HelloWorld.aspx File

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="HelloWorld.aspx.vb"
Inherits="HelloWorldWebApp.HelloWorld" %>


<!DOCTYPE html>

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

<head runat="server">

   <title>HelloWorldWeb</title>

</head>

<body>


</body>

</html>
```

HelloWorld.aspx.vb File

```
Public Class HelloWorld

   Inherits System.Web.UI.Page

   Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles
Me.Load

      Response.Write("<h1> Hello World </h1>")

      Response.Write("<h3>Welcome to Government Polytechnic Ahmedabad</h3>")


   End Sub

End Class
```

Output:

Practical : 3

Aim: Develop simple web page using built in Objects.

Practical3.aspx

```
<%@    Page    Language="vb"    AutoEventWireup="false"    CodeBehind="practical3.aspx.vb"
Inherits="HelloWorldWebApp.practical2" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
</head>
<body>
    <% Response.Write("Welcome to my blog") %>
    <marquee>Happy to see you here  :)</marquee>
    <% Response.Write("Enter your details")  %>
    <form method="post" action="practical3.aspx">
        <label>Enter your Name</label>
        <input name="uname" type="text" />
        <br />
        <label>Enter your Age</label>
        <input name="uage" type="text" />
        <br />

        <input type="submit" value="submit" />
    </form>
<br />
```

```
<% If (Not (Request.Form("uname") Is Nothing)) Then %>
<h1 style="color: red">Hello
<%= Request.Form("uname") %>, you are <%= Request.Form("uage") %> years old.
  </h1>
<% End If %>
</body>
</html>
```

Practical3.aspx.vb

```
Public Class practical2
    Inherits System.Web.UI.Page


    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles
Me.Load


        Application.Lock()
        Application("Visits") = Application("Visits") + 1
        Application.UnLock()
        Response.Write("This Application page has been visited " & Application("Visits") & " times!")


    End Sub


End Class
```

Output:

Before form submission

After form submission

Practical : 4

Aim: Design a web form to allow user to enter following details in his Resume using Web Server Controls. Set validations using properties. When data is submitted it must be viewed in the panel below the form. Fields of Resume are FirstName, Surname, Gender, Address, City, Pincode, Phone, Qualification (Diploma, Bachelor, Master), Specialization subjects, Percentage.

Practical4.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Practical4.aspx.vb"
Inherits="HelloWorldWebApp.Practical4" %>

<!DOCTYPE html>

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

<head runat="server">
   <title></title>
</head>

<body>

   <form id="form1" runat="server">
      <h1>Enter your Resume Details</h1>
      <table>
        <tr>
          <td>First Name</td>
          <td>
            <asp:TextBox runat="server" ID="txtFrName"></asp:TextBox>
            <asp:RequiredFieldValidator ID="rqvalFrName" runat="server"
               ForeColor="Red" ControlToValidate="txtFrName"
               ErrorMessage="Name is required">
            </asp:RequiredFieldValidator>
          </td>
        </tr>
```

```
<tr>
  <td>Surname</td>
  <td>
    <asp:TextBox runat="server" ID="txtSurname"></asp:TextBox>
    <asp:RequiredFieldValidator ID="rqvalSurname" runat="server"
      ForeColor="Red" ControlToValidate="txtSurname"
      ErrorMessage="Surname is required">
    </asp:RequiredFieldValidator>
  </td>
</tr>
<tr>
  <td>Gender</td>
  <td>
    <asp:RadioButtonList runat="server" ID="rblGender">
      <asp:ListItem Text="Male" Value="Male"></asp:ListItem>
      <asp:ListItem Text="Female" Value="Female"></asp:ListItem>
    </asp:RadioButtonList>
    <asp:RequiredFieldValidator ID="rqvalGender" runat="server"
      ForeColor="Red" ControlToValidate="rblGender"
      ErrorMessage="Gender must be selected">
    </asp:RequiredFieldValidator>
  </td>
</tr>
<tr>
  <td>Address</td>
  <td>
    <asp:TextBox runat="server" ID="txtAddress" TextMode="MultiLine">
    </asp:TextBox>
    <asp:RequiredFieldValidator ID="rqvalAddress" runat="server"
      ForeColor="Red" ControlToValidate="txtAddress"
      ErrorMessage="Address is required">
    </asp:RequiredFieldValidator>
  </td>
</tr>
<tr>
  <td>City</td>
  <td>
    <asp:TextBox runat="server" ID="txtCity"></asp:TextBox>
    <asp:RequiredFieldValidator ID="rqvalCity" runat="server" ForeColor="Red"
      ControlToValidate="txtCity" ErrorMessage="City required">
    </asp:RequiredFieldValidator>
  </td>
</tr>
```

```
<tr>
  <td>Pincode</td>
  <td>
    <asp:TextBox runat="server" ID="txtPincode"></asp:TextBox>
    <asp:RequiredFieldValidator ID="rqvalPincode" runat="server"
      ForeColor="Red" ControlToValidate="txtPincode"
      ErrorMessage ="Pincode is required" Display="Dynamic">
    </asp:RequiredFieldValidator>
    <asp:RegularExpressionValidator ID="revalPincode" runat="server"
      ForeColor="Red" ControlToValidate="txtPincode"
      ValidationExpression="\d{6}" ErrorMessage="Please Enter a valid pincode"
      Display="Dynamic">
    </asp:RegularExpressionValidator>
  </td>
</tr>
<tr>
  <td>Mobile no.</td>
  <td>
    <asp:TextBox runat="server" ID="txtMobile"></asp:TextBox>
    <asp:RequiredFieldValidator ID="rqvalMobile" runat="server"
      ForeColor="Red" ControlToValidate="txtMobile"
      ErrorMessage="Mobile number is required" Display="Dynamic">
    </asp:RequiredFieldValidator>
    <asp:RegularExpressionValidator ID="revalMobile" runat="server"
      ForeColor="Red" ControlToValidate="txtMobile"
      ValidationExpression="\d{10}" ErrorMessage="Please Enter a valid phone"
      Display="Dynamic">
    </asp:RegularExpressionValidator>
  </td>
</tr>
<tr>
  <td>Qualification</td>
  <td>
    <asp:DropDownList runat="server" ID="ddlQualification">
      <asp:ListItem Value="Diploma" Text="Diploma"></asp:ListItem>
      <asp:ListItem Value="Bachelor" Text="Bachelor"></asp:ListItem>
      <asp:ListItem Value="Master" Text="Master"></asp:ListItem>
    </asp:DropDownList>
  </td>
</tr>
<tr>
  <td>Specialization Subjects</td>
  <td>
    <asp:CheckBoxList runat="server" ID="cblSpecSubjects">
      <asp:ListItem Value="DS" Text="Data Science"></asp:ListItem>
      <asp:ListItem Value="IoT" Text="Internet of Things(IoT)"></asp:ListItem>
      <asp:ListItem Value="Dotnet" Text="DotNet"></asp:ListItem>
      <asp:ListItem Value="Java" Text="Java"></asp:ListItem>
      <asp:ListItem Value="NS" Text="Network Security"></asp:ListItem>
    </asp:CheckBoxList>
```

```
          <asp:CustomValidator runat="server" ID="cvalSpecSubjects" ForeColor="Red"
             OnServerValidate="cvalSpecSubjects_OnValidate"
             ErrorMessage="Please select atleast one subject">
          </asp:CustomValidator>
        </td>
      </tr>
      <tr>
        <td>Percentage</td>
        <td>
          <asp:TextBox runat="server" ID="txtPercentage"></asp:TextBox>
          <asp:RequiredFieldValidator runat="server" ID="rqvalPercentage"
             ForeColor="Red" ControlToValidate="txtPercentage"
             ErrorMessage="Percentage is required" Display="Dynamic">
          </asp:RequiredFieldValidator>
          <asp:RangeValidator runat="server" ID="rnvalPercentage" ForeColor="Red"
             Type="Integer" MinimumValue="0" MaximumValue="100"
             ControlToValidate="txtPercentage" ErrorMessage="Enter valid percentage"
             Display="Dynamic">
          </asp:RangeValidator>
        </td>
      </tr>
      <tr>
        <td>
          <asp:Button runat="server" ID="btnSubmit" OnClick="btnSubmit_OnClick"
             Text="Submit" />
        </td>
      </tr>
    </table>
</form>

<asp:Panel runat="server" ID="pnlDetails" Visible="false">
    <h3>Your Details Are:</h3>
    <table>
      <tr>
        <td>First Name</td>
        <td><asp:Label runat="server" ID="lblFrName"></asp:Label></td>
      </tr>
      <tr>
        <td>Surname</td>
        <td><asp:Label runat="server" ID="lblSurname"></asp:Label></td>
      </tr>
      <tr>
        <td>Gender</td>
        <td><asp:Label runat="server" ID="lblGender"></asp:Label></td>
      </tr>
      <tr>
        <td>Address</td>
        <td><asp:Label runat="server" ID="lblAddress"></asp:Label></td>
      </tr>
```

```
    <tr>
      <td>City</td>
      <td><asp:Label runat="server" ID="lblCity"></asp:Label></td>
    </tr>
    <tr>
      <td>Pincode</td>
      <td><asp:Label runat="server" ID="lblPincode"></asp:Label></td>
    </tr>
    <tr>
      <td>Mobile</td>
      <td><asp:Label runat="server" ID="lblMobile"></asp:Label></td>
    </tr>
    <tr>
      <td>Qualification</td>
      <td><asp:Label runat="server" ID="lblQualification"></asp:Label></td>
    </tr>
    <tr>
      <td>Specilization Subjects</td>
      <td><asp:Label runat="server" ID="lblSpecSubjects"></asp:Label></td>
    </tr>
    <tr>
      <td>Percentage</td>
      <td><asp:Label runat="server" ID="lblPercentage"></asp:Label></td>
    </tr>
  </table>
 </asp:Panel>
</body>
</html>
```

Practical4.aspx.vb

```vb
Public Class Practical4
    Inherits System.Web.UI.Page

    Protected Sub btnSubmit_OnClick(sender As Object, e As EventArgs) Handles btnSubmit.Click

        cvalSpecSubjects.Validate()
        If cvalSpecSubjects.IsValid Then
            lblFrName.Text = txtFrName.Text
            lblSurname.Text = txtSurname.Text
            lblGender.Text = rblGender.SelectedItem.Value
            lblAddress.Text = txtAddress.Text
            lblCity.Text = txtCity.Text
            lblPincode.Text = txtPincode.Text
            lblMobile.Text = txtMobile.Text
            lblQualification.Text = ddlQualification.SelectedItem.Value


            Dim str As String
            str = ""
            For Each itm In cblSpecSubjects.Items
                If itm.Selected = True Then
                    str += itm.Value + " "
                End If
            Next
            lblSpecSubjects.Text = str
            lblPercentage.Text = txtPercentage.Text
            pnlDetails.Visible = True
        End If
    End Sub

    Protected Sub cvalSpecSubjects_OnValidate(sender As Object, args As ServerValidateEventArgs)
        If cblSpecSubjects.SelectedIndex = -1 Then
            args.IsValid = False
        Else
            args.IsValid = True
        End If
    End Sub
End Class
```
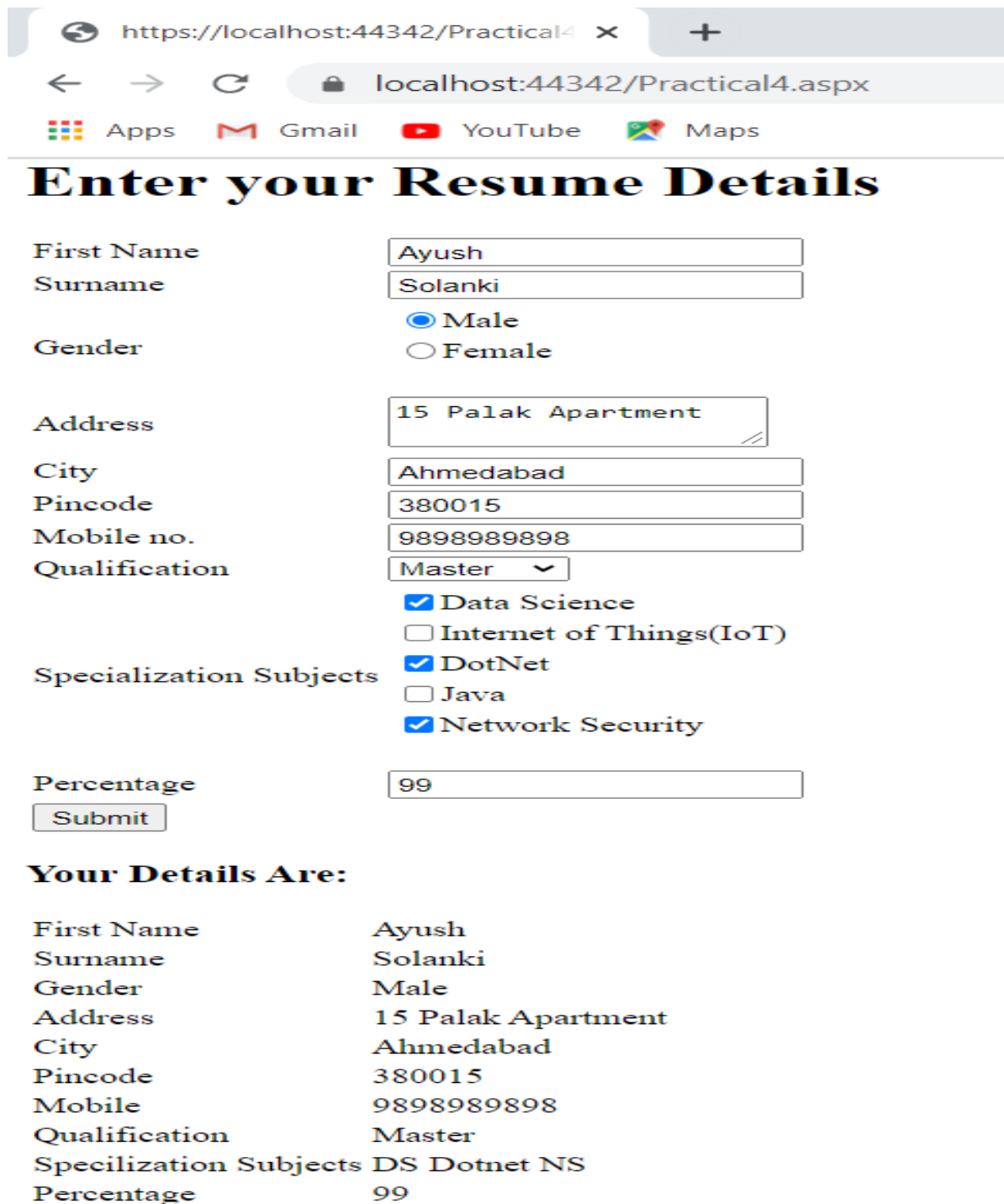
Output

Practical : 5

Aim: Create a web form where user enters following marks. ASP.NET, JAVA, ISS, Project (All out of 100). When user submits the marks, numeric value validation must be done. On entering marks, the grade should be displayed in message box .

% > 90 and <<=100   AA

% > 80 and <<=90   AB

% > 70 and <<=80   BB

 % > 60 and <<=67   BC

 % >50 and <<=60   CC

 % >40 and <= 50   DD

Else Fail

Practical5.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Practical5.aspx.vb"
Inherits="HelloWorldWebApp.Practical5" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head>
<body>
   <form id="form1" runat="server">
     <h1>Enter your Marks</h1>
     <table>
       <tr>
         <td>JAVA</td>

         <td>
           <asp:TextBox runat="server" ID="txtJava"></asp:TextBox>
           <asp:RequiredFieldValidator runat="server" ID="rqvalJava"
             ControlToValidate="txtJava" ErrorMessage="This field is required" Display="Dynamic">
           </asp:RequiredFieldValidator>
```

```
      <asp:RangeValidator runat="server" ID="rnvalJava"
        ControlToValidate="txtJava" Type="Integer" MinimumValue="0" MaximumValue="100"
        ErrorMessage="Please enter valid marks" Display="Dynamic">
      </asp:RangeValidator>
    </td>
  </tr>
  <tr>
    <td>ISS</td>
    <td>
      <asp:TextBox runat="server" ID="txtIss"></asp:TextBox>
      <asp:RequiredFieldValidator runat="server" ID="rqvalIss"
        ControlToValidate="txtIss" ErrorMessage="This field is required" Display="Dynamic">
      </asp:RequiredFieldValidator>
     <asp:RangeValidator runat="server" ID="rnvalIss" ControlToValidate="txtIss"
        Type="Integer" MinimumValue="0" MaximumValue="100" ErrorMessage="Please enter
        valid marks" Display="Dynamic">
      </asp:RangeValidator>
    </td>
  </tr>
  <tr>
    <td>ASP.NET</td>
    <td>
      <asp:TextBox runat="server" ID="txtAsp"></asp:TextBox>
      <asp:RequiredFieldValidator runat="server" ID="rqvalAsp"
        ControlToValidate="txtAsp"
        ErrorMessage="This field is required" Display="Dynamic">
      </asp:RequiredFieldValidator>
      <asp:RangeValidator runat="server" ID="rnvalAsp"
        ControlToValidate="txtAsp"
        Type="Integer" MinimumValue="0" MaximumValue="100"
        ErrorMessage="Please enter valid marks" Display="Dynamic">
      </asp:RangeValidator>
    </td>
  </tr>
  <tr>
    <td>Project</td>
    <td>
      <asp:TextBox runat="server" ID="txtProject"></asp:TextBox>
      <asp:RequiredFieldValidator runat="server" ID="rqvalProject"
        ControlToValidate="txtProject" ErrorMessage="This field is required" Display="Dynamic">
      </asp:RequiredFieldValidator>

      <asp:RangeValidator runat="server" ID="rnvalProject"
        ControlToValidate="txtProject"
        Type="Integer" MinimumValue="0" MaximumValue="100"
        ErrorMessage="Please enter valid marks" Display="Dynamic">
      </asp:RangeValidator>
    </td>
  </tr>
```

```
      <tr>
        <td>
          <asp:Button runat="server" ID="btnSubmit" Text="Check Grade"
            OnClick="btnSubmit_OnClick" />
        </td>
      </tr>
    </table>
  </form>
</body>
</html>
```

Practical5.aspx.vb

```vb
Public Class Practical5
  Inherits System.Web.UI.Page

  Protected Sub btnSubmit_OnClick(sender As Object, e As EventArgs)

    Dim dotnet, java, iss, project, total_marks As Integer
    Dim per As Double
    Dim grade As String
    dotnet = Integer.Parse(txtAsp.Text.ToString())
    java = Integer.Parse(txtJava.Text.ToString())
    iss = Integer.Parse(txtIss.Text.ToString())
    project = Integer.Parse(txtProject.Text.ToString())
    total_marks = dotnet + java + iss + project
    per = (total_marks * 100) / 400

    If per > 90 Then
       grade = "AA"
    ElseIf per > 80 And per <= 90 Then
       grade = "AB"
    ElseIf per > 70 And per <= 80 Then
       grade = "BB"
    ElseIf per > 60 And per <= 70 Then
       grade = "BC"
    ElseIf per > 50 And per <= 60 Then
       grade = "CC"

    ElseIf per > 40 And per <= 50 Then
       grade = "DD"
    Else
       grade = "Fail"
    End If

    MsgBox("Your Grade is " & grade)
  End Sub

End Class
```

Output

Practical : 6

Aim: Create a Simple calculator with validations and details.

Calculator.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Calculator.aspx.vb"
Inherits="HelloWorldWebApp.Calculator" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title>Calculator</title>
</head>
<body>
   <h1>Calculator</h1>
   <form id="form1" runat="server">
     <div>
       <table border="1">
         <tr>
           <td>
              Num1: <asp:TextBox ID="num1" runat="server"></asp:TextBox>
              <asp:CompareValidator runat="server" ID="num1Validator"
                     ControlToValidate="num1" Operator="DataTypeCheck"
                     Type="Integer"
                     ErrorMessage="Please enter a number"></asp:CompareValidator>
           </td>
           <td>
              Num2: <asp:TextBox ID="num2" runat="server"></asp:TextBox>
              <asp:CompareValidator runat="server" ID="num2Validator"
                     ControlToValidate="num2" Operator="DataTypeCheck"
                     Type="Integer"
                     ErrorMessage="Please enter a number"></asp:CompareValidator>
           </td>
         </tr>
         <tr>
           <td><asp:Button runat="server" ID="add" Text="ADD(+)"/></td>
           <td><asp:Button runat="server" ID="subtract" Text="SUB(-)"/></td>
         </tr>
         <tr>
           <td><asp:Button runat="server" ID="multiply" Text="MUL(*)"/></td>
           <td><asp:Button runat="server" ID="divide" Text="DIV(/)"/></td>
         </tr>
```
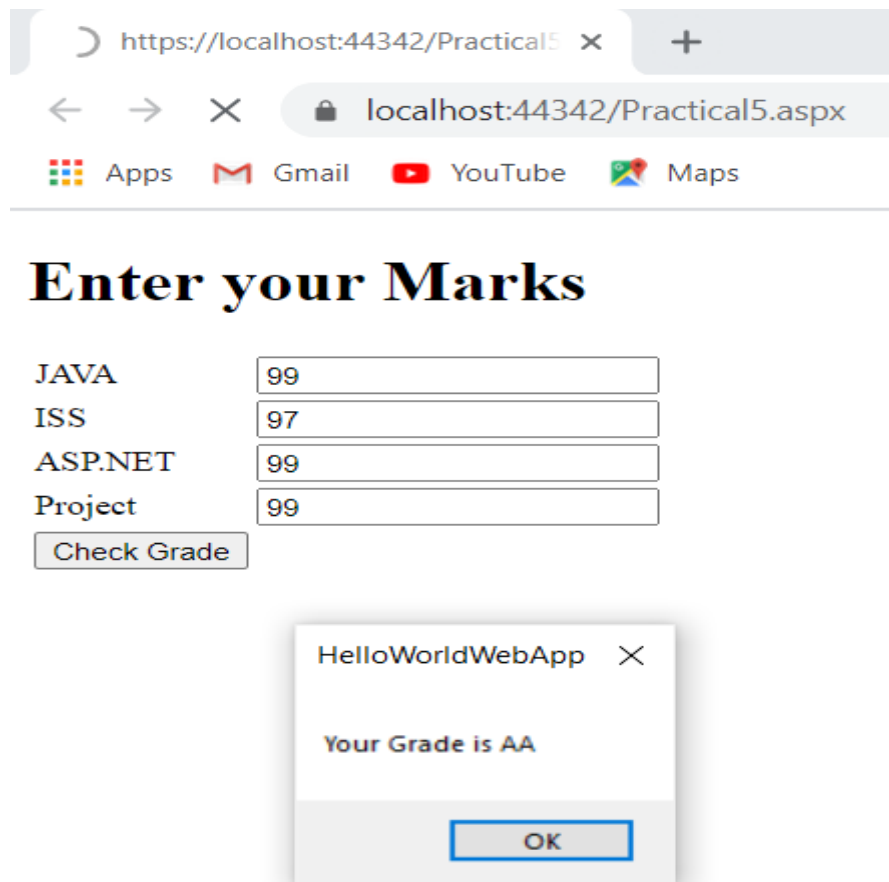
```
        <tr>
          <td><b>Answer</b></td>
          <td><asp:Label runat="server" ID="lblAnswer" Text="0"></asp:Label></td>
        </tr>
      </table>
    </div>
  </form>
</body>
</html>
```

Calculator.aspx.vb

```vb
Public Class Calculator Inherits System.Web.UI.Page

  Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs)
  Handles Me.Load

  End Sub

  Protected Sub btnAdd_OnClick(sender As Object, e As EventArgs) Handles add.Click
    Dim n1, n2 As Integer
    n1 = Integer.Parse(num1.Text)
    n2 = Integer.Parse(num2.Text)
    lblAnswer.Text = (n1 + n2).ToString()
  End Sub

  Protected Sub btnSubtract_OnClick(sender As Object, e As EventArgs) Handles subtract.Click
    Dim n1, n2 As Integer
    n1 = Integer.Parse(num1.Text)
    n2 = Integer.Parse(num2.Text)
    lblAnswer.Text = (n1 - n2).ToString()
  End Sub

  Protected Sub btnMultiply_OnClick(sender As Object, e As EventArgs) Handles
  multiply.Click
    Dim n1, n2 As Integer
    n1 = Integer.Parse(num1.Text)
    n2 = Integer.Parse(num2.Text)
    lblAnswer.Text = (n1 * n2).ToString()
  End Sub
  Protected Sub btnDivide_OnClick(sender As Object, e As EventArgs) Handles
  divide.Click
    Dim n1, n2 As Integer
    n1 = Integer.Parse(num1.Text)
    n2 = Integer.Parse(num2.Text)
    lblAnswer.Text = (n1 / n2).ToString()
  End Sub
End Class
```

Output
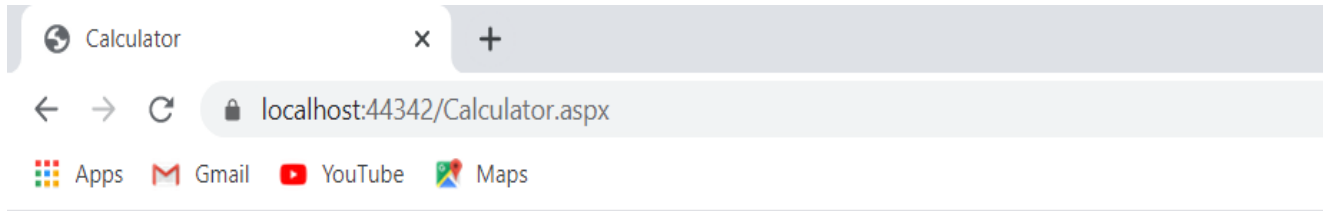
Practical : 7

Aim: Create a web page using the concept of cascading style sheets in ASP.NET.

Practical7.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Practical7.aspx.vb"
Inherits="HelloWorldWebApp.Practical7" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title>Styling</title>
   <link rel="stylesheet" href="Style1.css" />
</head>
<body>
   <form id="form1" runat="server">
     <div class="box">
        Hello!! I am a WebForm. I am Styled in Style.css File.
     </div>
     <asp:Label runat="server" ID="Label1" CssClass="label"
        Text="Styled Label"></asp:Label>
     <br />
     <asp:Button runat="server" ID="Button1" CssClass="btn" Text="Styled Button" />
   </form>
</body>
</html>
```

Style1.css

```
body{
   background-color: lightblue;
}
.box{
   background-color:lightgreen;
   color: red;
   font-size: xx-large;
   font-family:'Times New Roman', Times, serif
}
```

```
.label {
    background-color: black;
    color: gold;
    font-size: xx-large;
    font-weight: bolder;
}
.btn {
    background-color: lightcoral;
    color: ghostwhite;
    font-size: xx-large;
    font-weight: bolder;
}
```

Output
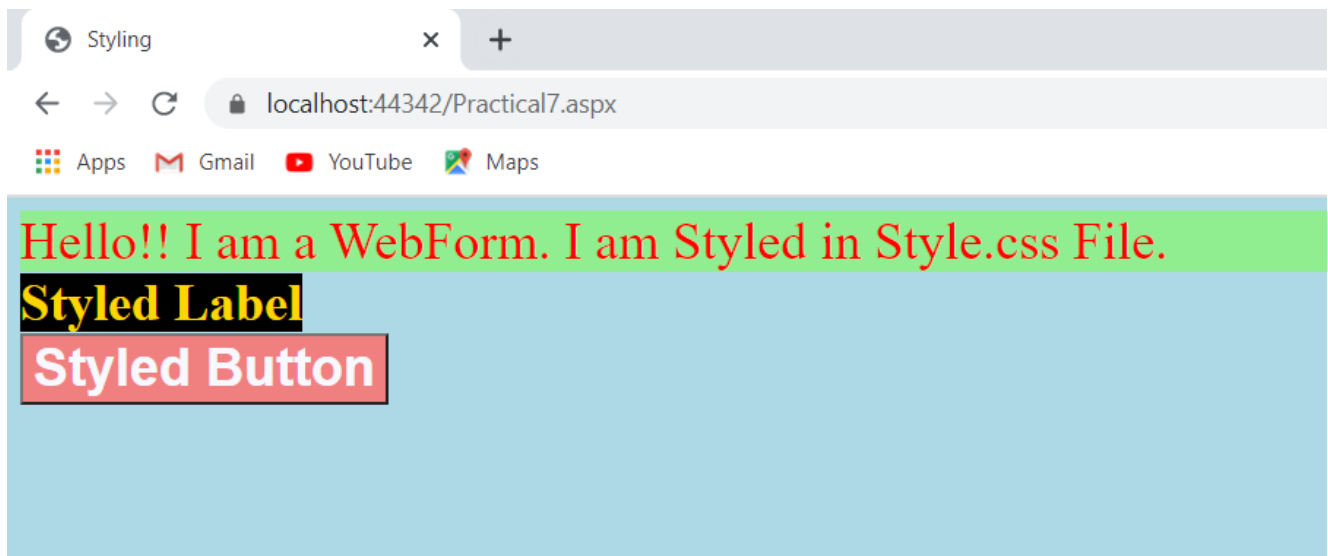
Practical : 8

Aim: Create a web page using the concept of cascading style sheets in ASP.NET.

Practical8.aspx

```
<%@ Page Language="vb" Theme="DefaultTheme" AutoEventWireup="false"
CodeBehind="Practical8.aspx.vb" Inherits="HelloWorldWebApp.Practical8" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Panel ID="Panel1" runat="server" >
                <table style="width:50%">
                    <tr>
                        <td>
                            <asp:Label ID="Label1" runat="server" Text="Some Text..."></asp:Label>
                        </td>
                        <td>
                            <asp:Button ID="Button1" runat="server" Text="Default Theme"
                                SkinID="btnDfltheme" />
                        </td>
                    </tr>
                </table>
            </asp:Panel>
        </div>
    </form>
</body>
</html>
```

Skin1.skin

```
<asp:Panel runat="server" BackColor="lightgreen" CssClass="panel"></asp:Panel>
<asp:Label runat="server" ForeColor="red" CssClass="label"></asp:Label>
<asp:Button runat="server" SkinID="btnDfltheme" BackColor="orange" CssClass="btn"/>
<asp:Button runat="server" SkinID="btnDrktheme" BackColor="violet" CssClass="btn"/>
```

DefStyle.css

```css
.panel{
    padding:2.5%;
}
.btn{
    font-size: large;
    color: whitesmoke;
}
.label {
    font-size: x-large;
}
```

Output
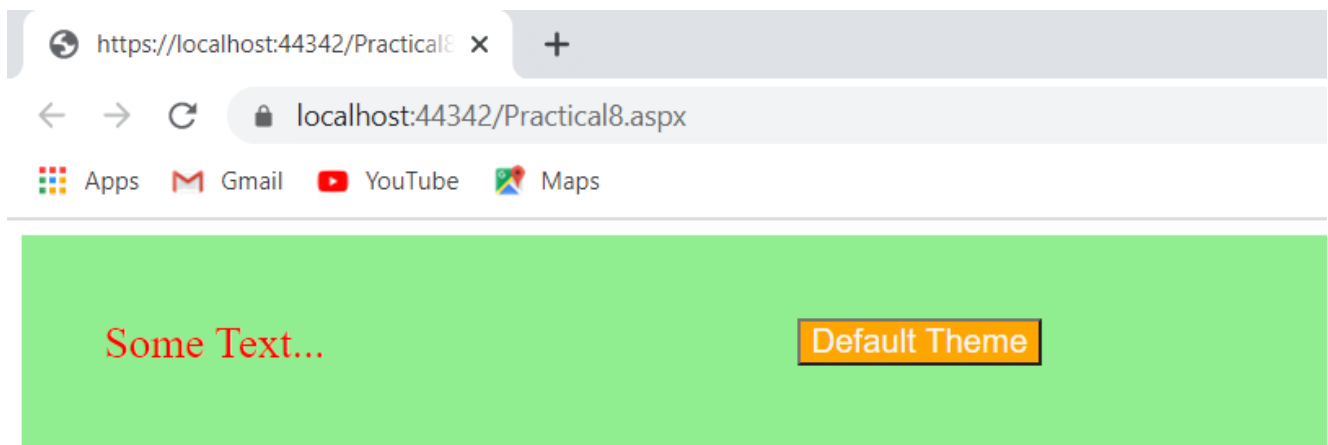
Practical : 9

Aim: Create Home page of your website using master page concept.

Home.master

```
<%@ Master Language="VB" AutoEventWireup="false" CodeBehind="HomePage.master.vb"
Inherits="HelloWorldWebApp.HomePage" %>

<!DOCTYPE html>

<html>
<head runat="server">
   <title></title>
   <asp:ContentPlaceHolder ID="head" runat="server">
   </asp:ContentPlaceHolder>
   <style>
     *{
        margin:0;
        padding:0;
        max-width: 100% !important;
     }
     .my-header{
        color: darkblue;
        font-size: 50px;
        text-align: center;
        background-color: lightgreen;
        padding: 2.5%;
     }
     .my-footer{
        color: white;
        font-weight: bold;
        background-color: black;
        position: absolute;
        left:0;
        bottom: 0;
        padding: 2.5%;
        box-sizing: border-box;
        width:100%;
     }
     .navbar{
        background-color: gold;
        list-style: none;
        padding: 0%;
        overflow: hidden
     }
```

```
      nav ul li{
         padding: 1.5%;
         float: left;
      }
      nav ul li a{
         color: darkmagenta;
         font-size:larger;
      }
   </style>
</head>
<body>
   <h1 class="my-header">Welcome To My Blog</h1>
   <nav>
      <ul class="navbar">
         <li><a>Home</a></li>
         <li><a>Contact</a></li>
         <li><a>Review</a></li>
      </ul>
   </nav>
   <form id="form1" runat="server">
      <div>
         <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
         </asp:ContentPlaceHolder>
      </div>
   </form>
   <div class="my-footer"> &#169; Ayush Solanki</div>
</body>
</html>
```

Home.aspx

```
<%@ Page Title="" Language="vb" AutoEventWireup="false" MasterPageFile="~/HomePage.Master"
CodeBehind="Home.aspx.vb" Inherits="HelloWorldWebApp.Home" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
   <style>
      .container{
         box-sizing: border-box;
         height: 100%;
         width: 100%;
         padding: 2.5%;
      }
      .box{
         background-color: steelblue;
         display: inline-block;
         color: whitesmoke;
         margin: 2.5%;
         padding: 1%;
         font-size: x-large;
         width: 25%;
      }
```

```
    </style>
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <div class="container">
        <div class="box"> Post 1</div>
        <div class="box"> Post 2</div>
        <div class="box"> Post 3</div>
        <div class="box"> Post 4</div>
        <div class="box"> Post 5</div>
    </div>
</asp:Content>
```

Output:

Practical : 10

Aim: Create a simple web application to illustrate concept of nested master page.

HomePage.master

```
<%@ Master Language="VB" AutoEventWireup="false" CodeBehind="HomePage.master.vb"
Inherits="HelloWorldWebApp.HomePage" %>

<!DOCTYPE html>

<html>
<head runat="server">
   <title></title>
   <asp:ContentPlaceHolder ID="head" runat="server">
   </asp:ContentPlaceHolder>
   <style>
     *{
        margin:0;
        padding:0;
        max-width: 100% !important;
     }
     .my-header{
        color: darkblue;
        font-size: 50px;
        text-align: center;
        background-color: lightgreen;
        padding: 2.5%;
     }
     .my-footer{
        color: white;
        font-weight: bold;
        background-color: black;
        position: absolute;
        left:0;
        bottom: 0;
        padding: 2.5%;
        box-sizing: border-box;
        width:100%;
     }
     .navbar{
        background-color: gold;
        list-style: none;
        padding: 0%;
        overflow: hidden
```

```
    }
    nav ul li{
        padding: 1.5%;
        float: left;
    }
    nav ul li a{
        color: darkmagenta;
        font-size:larger;
    }
    </style>
</head>
<body>
    <h1 class="my-header">Welcome To My Blog</h1>
    <nav>
        <ul class="navbar">
            <li><a>Home</a></li>
            <li><a>Contact</a></li>
            <li><a>Review</a></li>
        </ul>
    </nav>
    <form id="form1" runat="server">
        <div>
            <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
            </asp:ContentPlaceHolder>
        </div>
    </form>
    <div class="my-footer"> &#169; Ayush Solanki</div>
</body>
</html>
```
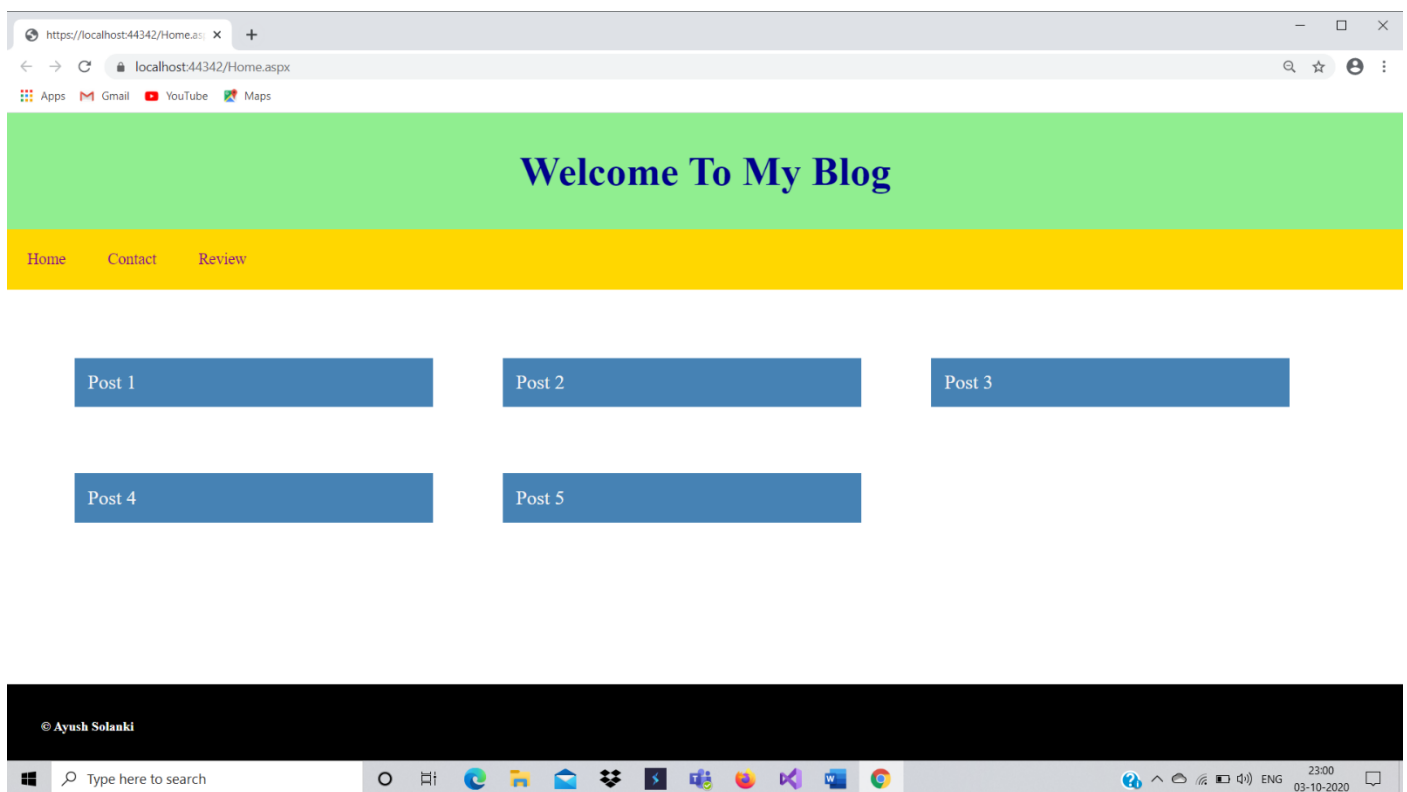
Nested.master

```
<%@ Master Language="VB" MasterPageFile="~/HomePage.Master" AutoEventWireup="false"
CodeBehind="Nested.master.vb" Inherits="HelloWorldWebApp.Base" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    <style>
        .sbar{
            background-color: coral;
            margin-left:0;
            height: 100%;
            padding: 2% 5%;
            color: white;
            font-size: xx-large;
        }
    </style>
</asp:Content>
```

```
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
   <div class="sbar">
      This content is from Nested master page
   </div>
   <asp:ContentPlaceHolder ID="NestedPlaceholder" runat="server"></asp:ContentPlaceHolder>
</asp:Content>
```

Prac10.aspx

```
<%@ Page Title="" Language="vb" AutoEventWireup="false" MasterPageFile="~/Nested.master"
CodeBehind="Prac10.aspx.vb" Inherits="HelloWorldWebApp.Prac10" %>
<asp:Content ID="Content1" ContentPlaceHolderID="NestedPlaceholder" runat="server">
   <h1>This is the contact page</h1>
</asp:Content>
```

Output
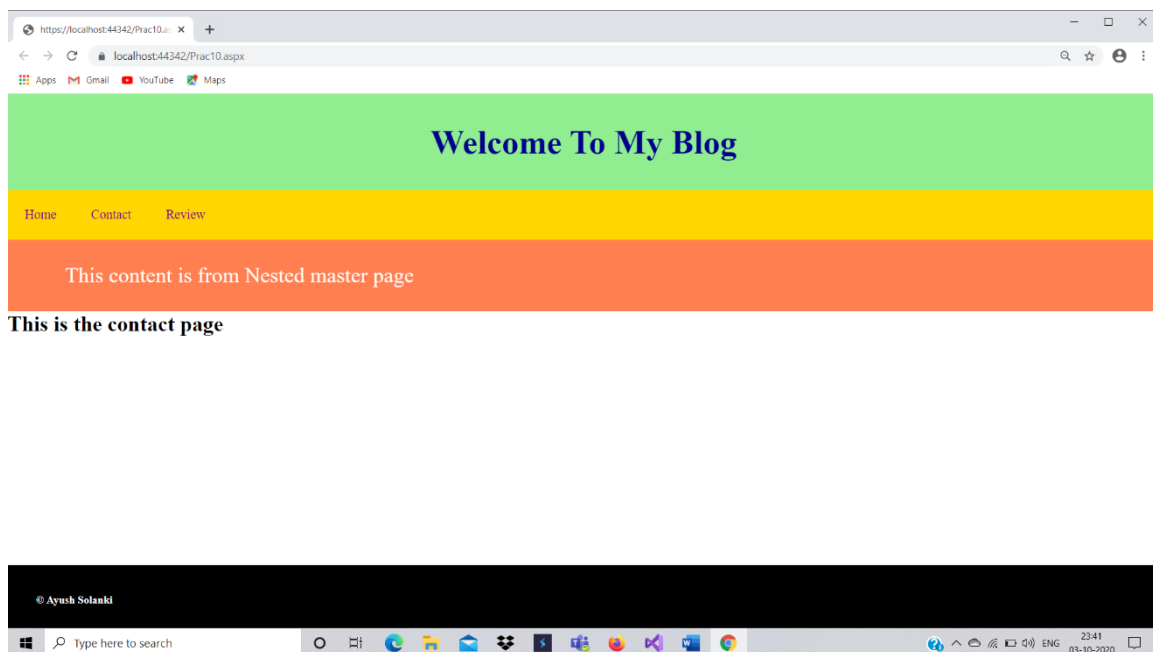
Practical : 11

Aim: Develop a web page to implement the concept of state management using Cookies

Prac11.aspx

```
<%@Page          Language="vb"          AutoEventWireup="false"          CodeBehind="Prac11.aspx.vb"
Inherits="HelloWorldWebApp.Prac11" %>

<!DOCTYPE html>

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

<head runat="server">

  <title>CookieManagement</title>

</head>

<body>

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

    <table>

      <tr>

        <td>Enter your name:</td>

        <td><asp:TextBox ID="txtName" runat="server"></asp:TextBox></td>

      </tr>

      <tr>

        <td>Enter your age:</td>

        <td><asp:TextBox ID="txtAge" runat="server"></asp:TextBox></td>

      </tr>

      <tr>

        <td><asp:Button ID="btnSubmit" runat="server" Text="Submit" /></td>

        <td><asp:Label ID="lblSumm" runat="server" Text=""></asp:Label></td>

      </tr>

    </table>

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

Prac11.aspx.vb

```vb
Public Class Prac11

    Inherits System.Web.UI.Page


    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        Dim myCookie As HttpCookie = Request.Cookies("DataCookie")
        If myCookie IsNot Nothing Then
            txtName.Text = myCookie("Name").ToString()
            txtAge.Text = myCookie("Age").ToString()
            lblSumm.Text = "Details are fetched from your last time visit"
        End If
    End Sub
    Protected Sub btnSubmit_OnClick(sender As Object, e As EventArgs) Handles btnSubmit.Click
        Dim myCookie As HttpCookie = Request.Cookies("DataCookie")
        If myCookie Is Nothing Then
            myCookie = New HttpCookie("DataCookie")
        End If
        myCookie.Values("Name") = txtName.Text.ToString()
        myCookie.Values("Age") = txtAge.Text.ToString()
        myCookie.Expires = DateTime.Now.AddDays(15)
        Response.Cookies.Add(myCookie)
    End Sub


End Class
```

Output:

Practical : 12

Aim: Develop a web page to implement the concept of state management using Session and Application.

Session Management

Prac12.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Prac12.aspx.vb"
Inherits="HelloWorldWebApp.Prac12" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <table>
            <tr>
                <td>Enter your name:</td>
                <td><asp:TextBox ID="txtName" runat="server"></asp:TextBox></td>
            </tr>
            <tr>
                <td>Enter your age:</td>
                <td><asp:TextBox ID="txtAge" runat="server"></asp:TextBox></td>
            </tr>
```

```
    <tr>
      <td><asp:Button ID="btnSubmit" runat="server" Text="Submit" /></td>
      <td><asp:Label ID="lblSumm" runat="server" Text=""></asp:Label></td>
    </tr>
    </table>
    </div>
  </form>
</body>
</html>
```

Prac12.aspx.vb

```vb
Public Class Prac12
    Inherits System.Web.UI.Page


    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load


    End Sub


    Protected Sub btnSubmit_Click(sender As Object, e As EventArgs) Handles btnSubmit.Click
        Session("Name") = txtName.Text.ToString()
        Session("Age") = txtAge.Text.ToString()
        Response.Redirect("SessCheck.aspx")
    End Sub
End Class
```

SessCheck.aspx.vb

Public Class SessCheck

  Inherits System.Web.UI.Page

  Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

    If Session("Name") IsNot Nothing And Session("Age") IsNot Nothing Then

      Response.Write("Value is being retireved from current session......")

      Response.Write("<br>")

      Response.Write("Name: " & Session("Name").ToString() & " Age: " & Session("Age").ToString())

    End If

  End Sub

End Class

Output:
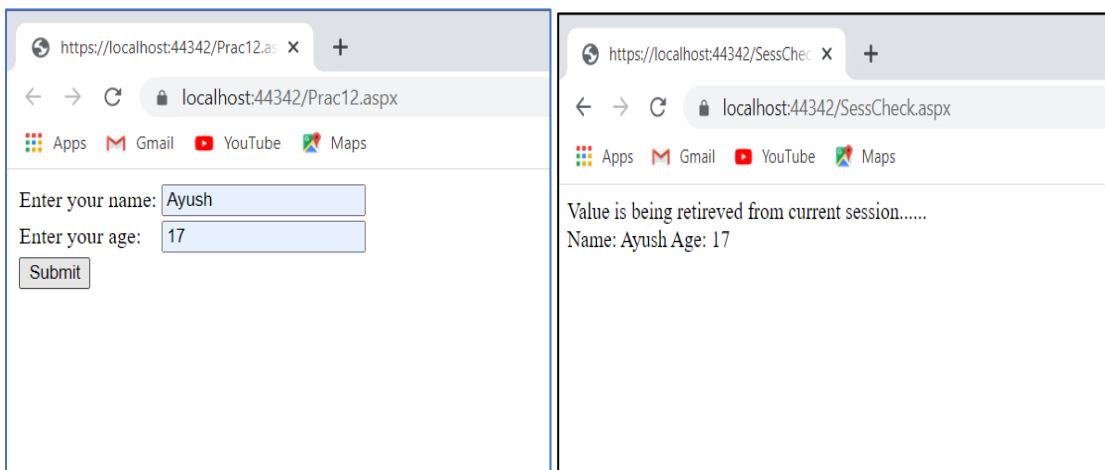
Using Application State Management

Prac12Appl.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Prac12Appl.aspx.vb"
Inherits="HelloWorldWebApp.Prac12Appl" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <table>
            <tr>
                <td>Enter your name:</td>
                <td><asp:TextBox ID="txtName" runat="server"></asp:TextBox></td>
            </tr>
            <tr>
                <td>Enter your age:</td>
                <td><asp:TextBox ID="txtAge" runat="server"></asp:TextBox></td>
            </tr>
            <tr>
                <td><asp:Button ID="btnSubmit" runat="server" Text="Submit" /></td>
                <td><asp:Label ID="lblSumm" runat="server" Text=""></asp:Label></td>
            </tr>
            </table>
        </div> </form></body></html>
```
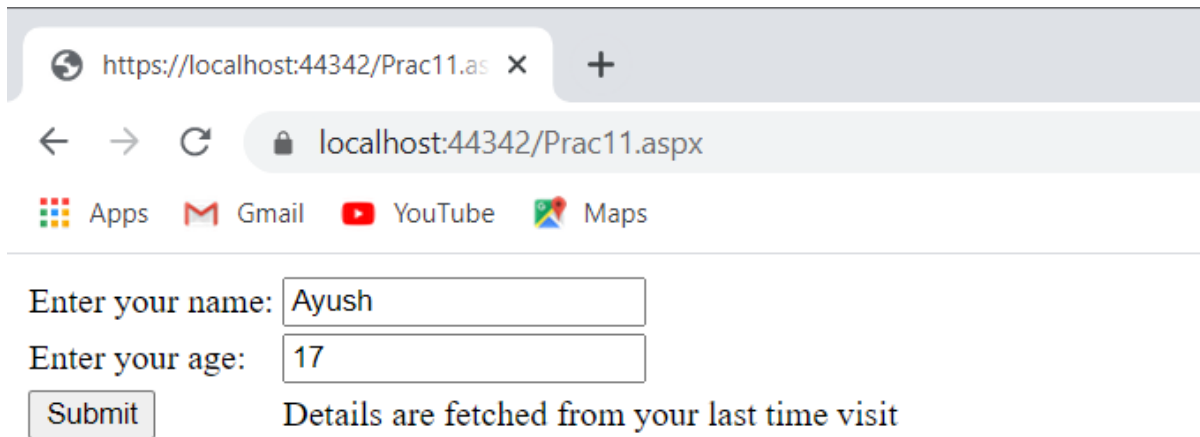
Prac12Appl.aspx.vb

```vb
Public Class Prac12Appl

    Inherits System.Web.UI.Page


    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load


    End Sub


    Protected Sub btnSubmit_Click(sender As Object, e As EventArgs) Handles btnSubmit.Click

        Application("Name") = txtName.Text.ToString()

        Application("Age") = txtAge.Text.ToString()

        Response.Redirect("ApplSt.aspx")

    End Sub

End Class
```

ApplSt.aspx.vb

```vb
Public Class ApplSt

    Inherits System.Web.UI.Page


    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

        If Application("Name") IsNot Nothing And Application("Age") IsNot Nothing Then

            Response.Write("Value is being retireved from Application Object......")

            Response.Write("<br>")

            Response.Write("Name: " & Application("Name").ToString() & " Age: " &
            Application("Age").ToString())

        End If

    End Sub


End Class
```
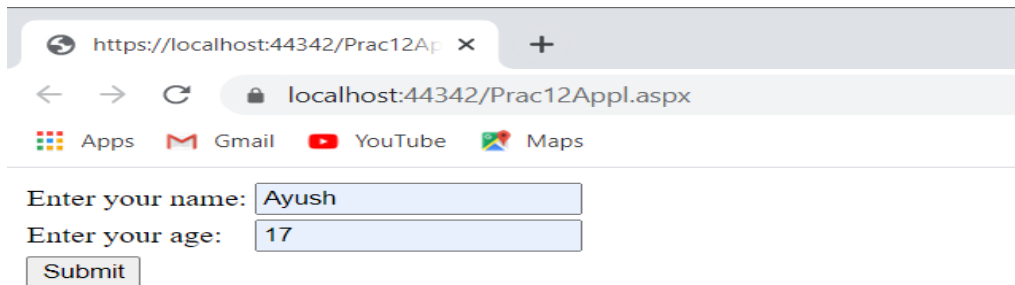
Practical : 13

Aim: Develop a web page to implement the concept of state management using ViewState and QueryString.

Prac13.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Prac13.aspx.vb"
Inherits="HelloWorldWebApp.Prac13" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <table>
      <tr>
        <td>Enter your name:</td>
        <td><asp:TextBox ID="txtName" runat="server"></asp:TextBox></td>
      </tr>
      <tr>
        <td>Enter your age:</td>
        <td><asp:TextBox ID="txtAge" runat="server"></asp:TextBox></td>
      </tr>
      <tr>
        <td><asp:Button ID="btnSubmit" runat="server" Text="Autofill" /></td>
        <td><asp:Label ID="lblSumm" runat="server"></asp:Label></td>
      </tr>
    </table>
    </div>
  </form>
</body>
</html>
```

Prac13.aspx.vb

```vb
Public Class Prac13
    Inherits System.Web.UI.Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        ViewState("Name") = "Ayush"
        ViewState("Age") = 17
    End Sub

    Protected Sub btnSubmit_Click(sender As Object, e As EventArgs) Handles btnSubmit.Click
        txtName.Text = ViewState("Name")
        txtAge.Text = ViewState("Age")
    End Sub
End Class
```
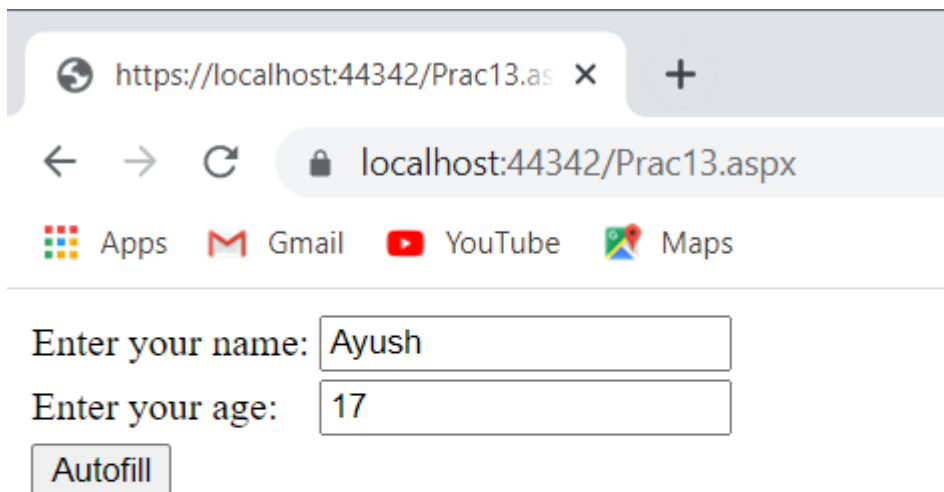
Output:

Querystring

Prac13Q.aspx.vb

```
Public Class Prac13Q
    Inherits System.Web.UI.Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        If Request.QueryString("Name") IsNot Nothing Then
            Response.Write("Name passed in Querystring is " & Request.QueryString("Name"))
        End If
    End Sub

End Class
```

Output

Name passed in Querystring is Ayush
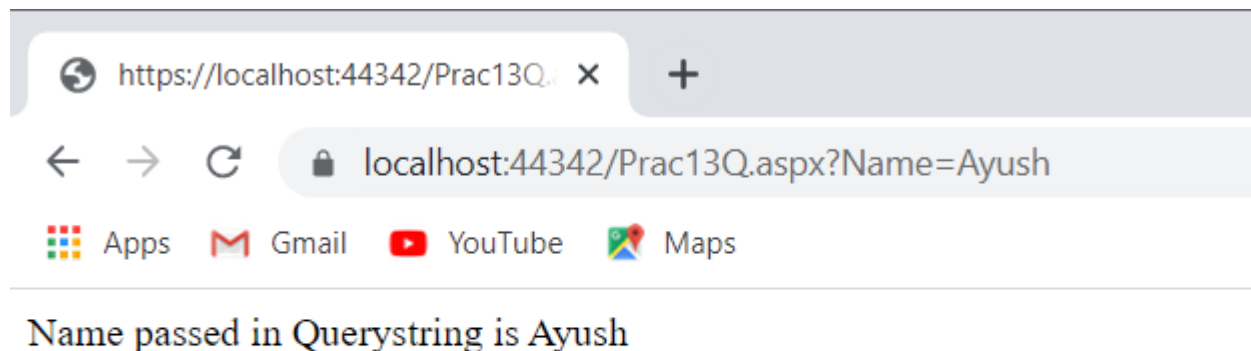
Practical : 14

Aim: Create a web application using Global.asax file which will count the number of visitors on web page.

Global.asax.vb

Imports System.Web.SessionState

```vb
Public Class Global_asax
  Inherits System.Web.HttpApplication

  Sub Application_Start(ByVal sender As Object, ByVal e As EventArgs)
    Application("TotalVisitors") = 0
  End Sub

  Sub Session_Start(ByVal sender As Object, ByVal e As EventArgs)
    Application.Lock()
    Application("TotalVisitors") = Integer.Parse(Application("TotalVisitors")) + 1
    Application.UnLock()
  End Sub

  Sub Session_End(ByVal sender As Object, ByVal e As EventArgs)
    Application.Lock()
    Application("TotalVisitors") = Integer.Parse(Application("TotalVisitors")) - 1
    Application.UnLock()
  End Sub

  Sub Application_End(ByVal sender As Object, ByVal e As EventArgs)
    ' Fires when the application ends
  End Sub

End Class
```

VisitorCounter.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="VisitorCounter.aspx.vb"
Inherits="HelloWorldWebApp.VisitorCounter" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <% Response.Write("Total number of visitors in the site : " & Application("TotalVisitors")) %>
    </form>
</body>
</html>
```

Output

Total number of visitors in the site : 1
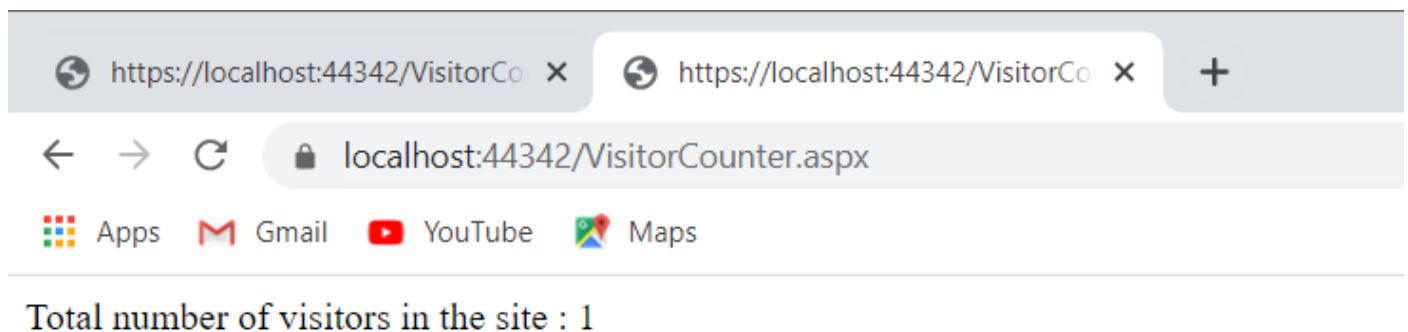
Practical : 15

Aim: Use various tags in Web.config file for ASP.NET configuration.

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>
  <appSettings>
    <add key="ValidationSettings:UnobtrusiveValidationMode" value="None" />
            <add key="Developer" value="Ayush Solanki"/>
            <add key="DevelopmentDate" value="07/10/2020"/>
      </appSettings>

  <system.web>
    <compilation debug="true" strict="false" explicit="true" targetFramework="4.7.2"/>
    <httpRuntime targetFramework="4.7.2"/>
  </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=\&quot;Web\&quot;
      /optionInfer+"/>
    </compilers>
  </system.codedom>
</configuration>
```

Prac15.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Prac15.aspx.vb"
Inherits="HelloWorldWebApp.Prac15" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        Developer Name: <asp:Label ID="lblDevName" runat="server"></asp:Label>
        <br />
        Development Date: <asp:Label ID="lblDevDate" runat="server"></asp:Label>
    </form>
</body>
</html>
```

Prac15.aspx.vb

```
Public Class Prac15
    Inherits System.Web.UI.Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        lblDevName.Text = ConfigurationManager.AppSettings("Developer")
        lblDevDate.Text = ConfigurationManager.AppSettings("DevelopmentDate")
    End Sub

End Class
```

Output:

Developer Name: Ayush Solanki
Development Date: 07/10/2020
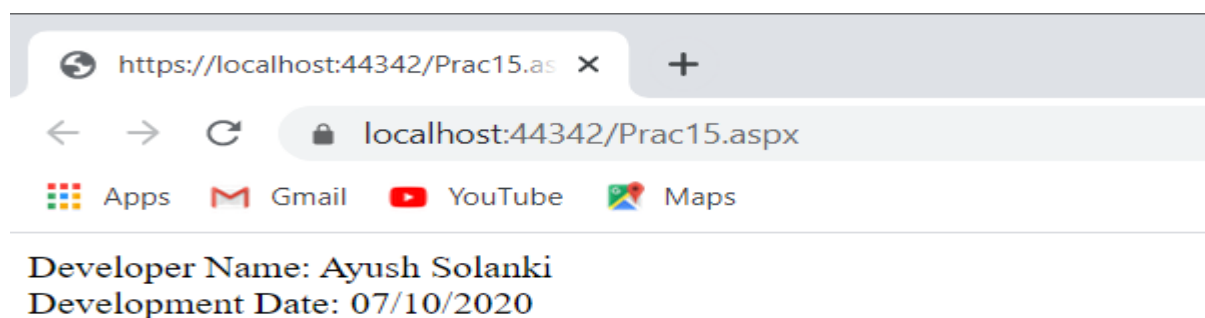
Practical : 16

Aim: Write sample application to connect to database (connection object), Fetching and inserting data from database (command object) and using Data Reader.

Prac16.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Prac16.aspx.vb"
Inherits="HelloWorldWebApp.Prac16" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <h1>Enter Student Details</h1>
        <table>
            <tr>
                <td>Student Enroll</td>
                <td><asp:TextBox runat="server" ID="txtenroll"></asp:TextBox></td>
            </tr>
            <tr>
                <td>Student Name</td>
                <td><asp:TextBox runat="server" ID="txtsname"></asp:TextBox></td>
            </tr>
            <tr>
                <td>Student Sem</td>
                <td><asp:TextBox runat="server" ID="txtsem"></asp:TextBox></td>
            </tr>
            <tr>
                <td colspan="2">
                    <asp:Button ID="btnInsert" runat="server" Text="Insert" />
                </td>
            </tr>
        </table>
    </form>
    <asp:Panel ID="Panel1" runat="server"></asp:Panel>
</body>
</html>
```

Prac16.aspx.vb

```
Imports System.Data.SqlClient
Public Class Prac16
    Inherits System.Web.UI.Page

        Dim conn As New SqlConnection("
        DataSource=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloW
        orldWebApp\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        updateTable()
    End Sub

    Sub updateTable()
        Panel1.Controls.Clear()

        Dim query As String = "select * from students"
        conn.Open()
        Dim cmd As New SqlCommand(query, conn)
        Dim reader As SqlDataReader
        Dim htmlcode As String = "<table border=""1"">"
        htmlcode += "<tr><th>Enroll</th><th>Name</th><th>Sem</th></tr>"
        reader = cmd.ExecuteReader()
        While reader.Read()
            htmlcode += "<tr>"
            htmlcode += "<td>" & reader.GetInt32(0) & "</td>"
            htmlcode += "<td>" & reader.GetString(1) & "</td>"
            htmlcode += "<td>" & reader.GetInt32(2) & "</td>"
            htmlcode += "</tr>"
        End While
        Panel1.Controls.Add(New LiteralControl(htmlcode))
        conn.Close()
    End Sub
    Protected Sub btnInsert_Click(sender As Object, e As EventArgs) Handles btnInsert.Click
        Dim cmd As New SqlCommand()
        conn.Open()
        cmd.Connection = conn
        Dim query As String = "insert into students values(" & txtenroll.Text.ToString() & ",'" &
txtsname.Text.ToString() & "'," & txtsem.Text.ToString() & ");"
        cmd.CommandText = query
        cmd.ExecuteNonQuery()
        conn.Close()
        updateTable()
        txtenroll.Text = ""
        txtsname.Text = ""
        txtsem.Text = ""
    End Sub
End Class
```

Output:

Practical : 17

Aim: Create a Web page and test the connectivity of your database with biodata form in exercise 1. If connected, display the message that connection with database is successful, and redirect the user to his homepage

Prac17.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Prac17.aspx.vb"
Inherits="HelloWorldWebApp.Prac17" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <table class="auto-style1">
        <tr>
          <td colspan="2">Submit Your Details</td>
        </tr>
        <tr>
          <td class="auto-style2">
            <asp:Label ID="Label1" runat="server" Text="First Name"></asp:Label>
          </td>
          <td>
            <asp:TextBox ID="txtFname" runat="server" CausesValidation="true"></asp:TextBox>
            <asp:RequiredFieldValidator ID="FnameValidator" runat="server" ErrorMessage="First
                  name is required" ValidationGroup="FormValidate"
            ControlToValidate="txtFname"></asp:RequiredFieldValidator>
          </td>
        </tr>

        <tr>
          <td class="auto-style2">
            <asp:Label ID="Label3" runat="server" Text="Gender"></asp:Label>
          </td>
```

```
<td>
   <asp:RadioButtonList ID="rblGender" runat="server">
      <asp:ListItem Selected="True">Male</asp:ListItem>
      <asp:ListItem>Female</asp:ListItem>
   </asp:RadioButtonList>
</td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label4" runat="server" Text="Address"></asp:Label>
   </td>
   <td>
      <asp:TextBox ID="txtAddress" runat="server" CausesValidation="true"></asp:TextBox>
      <asp:RequiredFieldValidator ID="AddressValidator" runat="server"
            ErrorMessage="Address is required" ValidationGroup="FormValidate"
      ControlToValidate="txtAddress"></asp:RequiredFieldValidator>
   </td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label5" runat="server" Text="City"></asp:Label>
   </td>
   <td>
      <asp:DropDownList ID="ddlCity" runat="server">
         <asp:ListItem>Ahmedabad</asp:ListItem>
         <asp:ListItem>Rajkot</asp:ListItem>
         <asp:ListItem>Gandhinagar</asp:ListItem>
         <asp:ListItem>Surat</asp:ListItem>
      </asp:DropDownList>
   </td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label6" runat="server" Text="Pincode"></asp:Label>
   </td>
   <td>
      <asp:TextBox ID="txtPincode" runat="server" CausesValidation="true"></asp:TextBox>
      <asp:CustomValidator ID="PincodeValidator" runat="server"
            ErrorMessage="Enter a valid pincode" ValidationGroup="FormValidate"
      ControlToValidate="txtPincode"
      OnServerValidate="PincodeValidator_ServerValidate"></asp:CustomValidator>
   </td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label7" runat="server" Text="Phone No"></asp:Label>
   </td>
</tr>
```
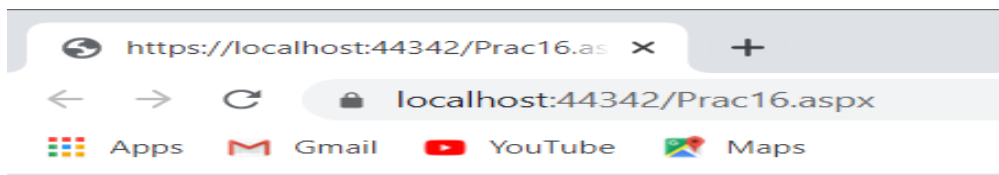
```
<td>
   <asp:TextBox ID="txtPhone" runat="server" CausesValidation="true"></asp:TextBox>
   <asp:CustomValidator ID="PhoneValidator" runat="server"
         ErrorMessage="Enter a valid phone number" ValidationGroup="FormValidate"
   ControlToValidate ="txtPhone"
   OnServerValidate="PhoneValidator_ServerValidate"></asp:CustomValidator>
   </td>
</tr>
<tr>
   <td class="auto-style3">
      <asp:Label ID="Label8" runat="server" Text="Qualification"></asp:Label>
   </td>
   <td class="auto-style4">
      <asp:DropDownList ID="ddlQualification" runat="server">
         <asp:ListItem>Diploma</asp:ListItem>
         <asp:ListItem>Bachelor</asp:ListItem>
         <asp:ListItem>Master</asp:ListItem>
      </asp:DropDownList>
   </td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label9" runat="server" Text="Specialization Subjects"></asp:Label>
      </td>
   <td>
      <asp:CheckBoxList ID="cblSubjects" runat="server">
         <asp:ListItem Value="IOT">Internet Of Things(IOT)</asp:ListItem>
         <asp:ListItem>Data Science</asp:ListItem>
         <asp:ListItem>Computer Networking</asp:ListItem>
         <asp:ListItem>Java</asp:ListItem>
         <asp:ListItem>Cyber Security</asp:ListItem>
      </asp:CheckBoxList>

   </td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label10" runat="server" Text="Pecrentage"></asp:Label>
   </td>
   <td>
      <asp:TextBox ID="txtPercentage" runat="server" CausesValidation="true"></asp:TextBox>
      <asp:CustomValidator ID="PercentageValidator" runat="server
            ErrorMessage="Please enter valid percentage" ControlToValidate="txtPercentage"
      ValidationGroup="FormValidate" ValidateEmptyText="true"
      OnServerValidate="PercentageValidator_ServerValidate"></asp:CustomValidator>
   </td>
</tr>
```
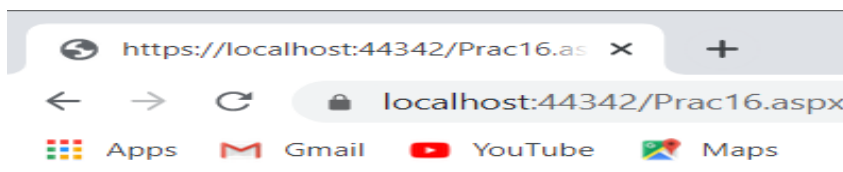
```
      <tr>
        <td class="auto-style2">
          <asp:Button ID="btnSubmit" runat="server" Text="Submit"
                ValidationGroup="FormValidate" />
        </td>
        <td> </td>
      </tr>
    </table>
  </div>
 </form>
</body>
</html>
```

Prac17.aspx.vb

```
Imports System.Data.SqlClient
Public Class Prac17
  Inherits System.Web.UI.Page

  Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebAp
p\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

  Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
    conn.Open()
    If conn.State = ConnectionState.Open Then
      MsgBox("Connection is successfull enter data to return to home page")
    End If
    conn.Close()
  End Sub

  Protected Sub btnSubmit_Click(sender As Object, e As EventArgs) Handles btnSubmit.Click

    Page.Validate("FormValidate")
    If Page.IsValid Then
      Dim query As String
      conn.Open()
      Dim cmd As New SqlCommand()
      cmd.Connection = conn
      query = "insert into biodata values('" & txtFname.Text.ToString() & "','"
      query &= rblGender.SelectedValue.ToString() & "','"
      query &= txtAddress.Text.ToString() & "','"
      query &= ddlCity.SelectedValue.ToString() & "','"
      query &= txtPincode.Text.ToString() & "','"
      query &= txtPhone.Text.ToString() & "','"
      query &= ddlQualification.SelectedValue.ToString() & "','"
      Dim subs As String = ""
```

```
      For Each cb In cblSubjects.Items
         If cb.Selected = True Then
            subs &= cb.Value.ToString() & ","
         End If
      Next
      query &= subs & "',"
      query &= txtPercentage.Text.ToString() & ");"
      cmd.CommandText = query
      cmd.ExecuteNonQuery()
      conn.Close()
      Response.Redirect("EmpHome.aspx?Name=" & txtFname.Text.ToString())
   End If

End Sub

  Protected Sub PincodeValidator_ServerValidate(source As Object, args As ServerValidateEventArgs)
Handles PincodeValidator.ServerValidate

   Dim val As String
   val = args.Value.ToString()
   Dim rg As New Regex("^[0-9]{6}$")
   If args Is Nothing Then
      args.IsValid = False
   End If
   If (rg.IsMatch(val)) Then
      args.IsValid = True
   Else
      args.IsValid = False
   End If

End Sub

  Protected Sub PhoneValidator_ServerValidate(source As Object, args As ServerValidateEventArgs)
Handles PhoneValidator.ServerValidate

   Dim val As String
   val = args.Value.ToString()
   Dim rg As New Regex("\d{10}")
   If args Is Nothing Then
      args.IsValid = False
   End If
   If (rg.IsMatch(val)) Then
      args.IsValid = True
   Else
      args.IsValid = False
   End If

End Sub
```

```vb
Protected Sub PercentageValidator_ServerValidate(source As Object, args As ServerValidateEventArgs)
Handles PercentageValidator.ServerValidate
    Try
        Dim val As Integer
        val = Integer.Parse(args.Value.ToString())
        If (val <= 100) Then
            args.IsValid = True
        Else
            args.IsValid = False
        End If

    Catch ex As Exception
        args.IsValid = False
    End Try
    End Sub
End Class
```

EmpHome.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="EmpHome.aspx.vb"
Inherits="HelloWorldWebApp.EmpHome" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 100%;
        }
        .auto-style2 {
            width: 469px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
            <br />
            <br />
            <table class="auto-style1">
                <tr>
                    <td class="auto-style2">Specialized Subjects</td>
```

```
          <td>
             <asp:Label ID="Label2" runat="server" Text="Label"></asp:Label>
          </td>
       </tr>
       <tr>
          <td class="auto-style2">City</td>
          <td>
             <asp:Label ID="Label3" runat="server" Text="Label"></asp:Label>
          </td>
       </tr>
       <tr>
          <td class="auto-style2">Gender</td>
          <td>
             <asp:Label ID="Label4" runat="server" Text="Label"></asp:Label>
          </td>
       </tr>
       <tr>
          <td class="auto-style2">Percentage</td>
          <td>
             <asp:Label ID="Label5" runat="server" Text="Label"></asp:Label>
          </td>
       </tr>
       <tr>
          <td class="auto-style2">Mobile</td>
          <td>
             <asp:Label ID="Label6" runat="server" Text="Label"></asp:Label>
          </td>
       </tr>
       <tr>
          <td class="auto-style2">Address</td>
          <td>
             <asp:Label ID="Label7" runat="server" Text="Label"></asp:Label>
          </td>
       </tr>
       <tr>
          <td class="auto-style2">Qualification</td>
          <td>
             <asp:Label ID="Label8" runat="server" Text="Label"></asp:Label>
          </td>
       </tr>
     </table>
   </div>
 </form>
</body>
</html>
```

EmpHome.aspx.vb

```vb
Imports System.Data.SqlClient
Public Class EmpHome
    Inherits System.Web.UI.Page

    Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebApp\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        Dim cmd As New SqlCommand()
        Dim query As String = "select * from biodata where ename like '" & Request.QueryString("Name") &
"';"
        conn.Open()
        cmd.Connection = conn
        cmd.CommandText = query
        Dim reader As SqlDataReader = cmd.ExecuteReader()
        While reader.Read()
            Label1.Text = "Welcome " & reader.GetString(0).ToString()
            Label2.Text = reader.GetString(7).ToString()
            Label3.Text = reader.GetString(3).ToString()
            Label4.Text = reader.GetString(1).ToString()
            Label5.Text = reader.GetInt32(8).ToString()
            Label6.Text = reader.GetString(5).ToString()
            Label7.Text = reader.GetString(2).ToString()
            Label8.Text = reader.GetString(4).ToString()
        End While
        conn.Close()
    End Sub

End Class
```

Output:

Practical : 18

Aim: Create a login page in your web application. Login page must have user name and password fields. If user enters correct ID, Password, he must be redirected to the homepage of your website.

Prac18.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Prac18.aspx.vb"
Inherits="HelloWorldWebApp.Prac18" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Login</title>
    <style>
        *{
            max-width: 100%;
        }
        .page-box{
            height: 100vh;
            width: 100vw;
            display:flex;
            align-items: center;
            justify-content: center;
        }
        .form-box{
            margin: auto;
            width: 25%;
            border: 2px solid black;
            border-radius: 10px;
            height: auto;
            text-align: center;
            padding: 2%;
            background-color: cornflowerblue;
        }
        .heading{
            font-size: xx-large;
            color: white;
        }
    </style>
</head>
```

```
<body>
    <form id="form1" runat="server">
        <div class="page-box">
            <div class="form-box">
                <span class="heading">Login</span>
                <br />
                <br />
                <table style="width:100%;font-size:x-large;color:white">
                    <tr>
                        <td>Username</td>
                        <td><asp:TextBox ID="txtusername" runat="server"></asp:TextBox></td>
                    </tr>
                    <tr>
                        <td>Password</td>
                        <td><asp:TextBox ID="txtpassword" runat="server" TextMode="Password">
                                </asp:TextBox>
                        </td>
                    </tr>
                    <tr>
                        <td colspan="2">
                            <asp:Button runat="server" Text="Login" ID="btnLogin" BackColor="White"
                                ForeColor="#000066" />
                            <p style="font-size:medium;color:red" runat="server" id="errormessage"></p>
                        </td>
                    </tr>
                </table>
            </div>
        </div>
    </form>
</body>
</html>
```

Prac18.aspx.vb

```
Imports System.Data.SqlClient

Public Class Prac18
    Inherits System.Web.UI.Page

    Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebAp
p\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

    End Sub
```

```
Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
    Dim cmd As New SqlCommand()
    conn.Open()
    Dim query As String = "select * from users where username like '" & txtusername.Text.ToString() & "'
and password like '" & txtpassword.Text.ToString() & "'"
    cmd.Connection = conn
    cmd.CommandText = query
    Dim reader As SqlDataReader = cmd.ExecuteReader()
    If reader.HasRows Then
        Session("username") = txtusername.Text.ToString()
        Response.Redirect("HomePage.aspx")
    Else
        errormessage.InnerText = "Username or password is incorrect"
    End If
End Sub
End Class
```

HomePage.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="HomePage.aspx.vb"
Inherits="HelloWorldWebApp.HomePage1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <h1>Hello <%= Session("username") %>, Welcome to our site</h1>
    </form>
</body>
</html>
```

HomePage.aspx.vb

```
Public Class HomePage1
    Inherits System.Web.UI.Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        If Session("username") Is Nothing Then
            Response.Redirect("Prac18.aspx")
        End If
    End Sub

End Class
```

Output:
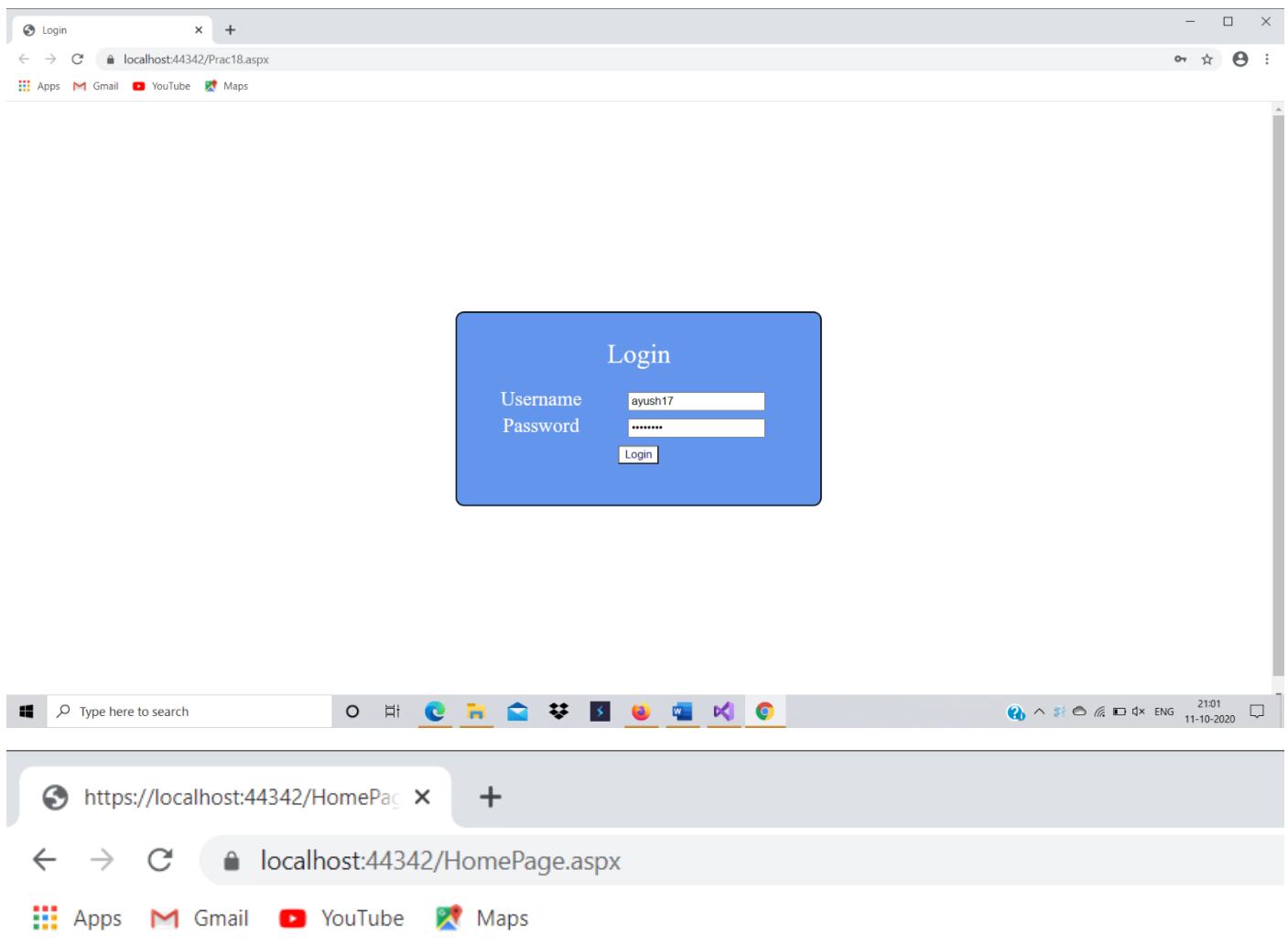
Practical : 19

Aim: Create a web page to insert user biodata information with all validations in to the database.

Biodata.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Prac17.aspx.vb"
Inherits="HelloWorldWebApp.Prac17" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <table class="auto-style1">
                <tr>
                    <td colspan="2">Submit Your Details</td>
                </tr>
                <tr>
                    <td class="auto-style2">
                        <asp:Label ID="Label1" runat="server" Text="First Name"></asp:Label>
                    </td>
                    <td>
                        <asp:TextBox ID="txtFname" runat="server" CausesValidation="true"></asp:TextBox>
                        <asp:RequiredFieldValidator ID="FnameValidator" runat="server"
                        ErrorMessage="Firstname is required" ValidationGroup="FormValidate"
                        ControlToValidate="txtFname">
                        </asp:RequiredFieldValidator>
                    </td>
                </tr>
                <tr>
                    <td class="auto-style2">
                        <asp:Label ID="Label3" runat="server" Text="Gender"></asp:Label>
                    </td>
                    <td>
                        <asp:RadioButtonList ID="rblGender" runat="server">
                            <asp:ListItem Selected="True">Male</asp:ListItem>
                            <asp:ListItem>Female</asp:ListItem>
                        </asp:RadioButtonList>
                    </td>
                </tr>
```

```
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label4" runat="server" Text="Address"></asp:Label>
   </td>
   <td>
      <asp:TextBox ID="txtAddress" runat="server" CausesValidation="true"></asp:TextBox>
      <asp:RequiredFieldValidator ID="AddressValidator" runat="server"
      ErrorMessage="Address is required" ValidationGroup="FormValidate"
      ControlToValidate="txtAddress">
      </asp:RequiredFieldValidator>
   </td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label5" runat="server" Text="City"></asp:Label>
   </td>
   <td>
      <asp:DropDownList ID="ddlCity" runat="server">
         <asp:ListItem>Ahmedabad</asp:ListItem>
         <asp:ListItem>Rajkot</asp:ListItem>
         <asp:ListItem>Gandhinagar</asp:ListItem>
         <asp:ListItem>Surat</asp:ListItem>
      </asp:DropDownList>
   </td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label6" runat="server" Text="Pincode"></asp:Label>
   </td>
   <td>
      <asp:TextBox ID="txtPincode" runat="server" CausesValidation="true"></asp:TextBox>
      <asp:CustomValidator ID="PincodeValidator" runat="server"
      ErrorMessage="Enter a valid pincode" ValidationGroup="FormValidate"
      ControlToValidate="txtPincode"  OnServerValidate="PincodeValidator_ServerValidate">
      </asp:CustomValidator>
   </td>
</tr>
<tr>
   <td class="auto-style2">
      <asp:Label ID="Label7" runat="server" Text="Phone No"></asp:Label>
   </td>
   <td>
      <asp:TextBox ID="txtPhone" runat="server" CausesValidation="true"></asp:TextBox>
      <asp:CustomValidator ID="PhoneValidator" runat="server"
      ErrorMessage="Enter a valid phone number" ValidationGroup="FormValidate"
      ControlToValidate ="txtPhone"  OnServerValidate="PhoneValidator_ServerValidate">
      </asp:CustomValidator>
   </td>
</tr>
<tr>
```

```
            <td class="auto-style3">
              <asp:Label ID="Label8" runat="server" Text="Qualification"></asp:Label>
            </td>
            <td class="auto-style4">
              <asp:DropDownList ID="ddlQualification" runat="server">
                <asp:ListItem>Diploma</asp:ListItem>
                <asp:ListItem>Bachelor</asp:ListItem>
                <asp:ListItem>Master</asp:ListItem>
              </asp:DropDownList>
            </td>
          </tr>
          <tr>
            <td class="auto-style2">
              <asp:Label ID="Label9" runat="server" Text="Specialization Subjects"></asp:Label>
            </td>
            <td>
              <asp:CheckBoxList ID="cblSubjects" runat="server">
                <asp:ListItem Value="IOT">Internet Of Things(IOT)</asp:ListItem>
                <asp:ListItem>Data Science</asp:ListItem>
                <asp:ListItem>Computer Networking</asp:ListItem>
                <asp:ListItem>Java</asp:ListItem>
                <asp:ListItem>Cyber Security</asp:ListItem>
              </asp:CheckBoxList>

            </td>
          </tr>
          <tr>
            <td class="auto-style2">
              <asp:Label ID="Label10" runat="server" Text="Pecrentage"></asp:Label>
            </td>
            <td>
              <asp:TextBox ID="txtPercentage" runat="server" CausesValidation="true"></asp:TextBox>
              <asp:CustomValidator ID="PercentageValidator" runat="server"
              ErrorMessage="Please enter valid percentage" ControlToValidate="txtPercentage"
              ValidationGroup="FormValidate" ValidateEmptyText="true"
              OnServerValidate="PercentageValidator_ServerValidate">
              </asp:CustomValidator>
            </td>
          </tr>
          <tr>
            <td class="auto-style2">
              <asp:Button ID="btnSubmit" runat="server" Text="Submit"
              ValidationGroup="FormValidate" />
            </td>
            <td> </td>
          </tr>
        </table>
      </div>
    </form>
</body></html>
```

Biodata.aspx.vb

```vb
Imports System.Data.SqlClient
Public Class Biodata
    Inherits System.Web.UI.Page

    Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebAp
p\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

    End Sub

    Protected Sub btnSubmit_Click(sender As Object, e As EventArgs) Handles btnSubmit.Click

        Page.Validate("FormValidate")
        If Page.IsValid Then
            Dim query As String
            conn.Open()
            Dim cmd As New SqlCommand()
            cmd.Connection = conn
            query = "insert into biodata values('" & txtFname.Text.ToString() & "','"
            query &= rblGender.SelectedValue.ToString() & "','"
            query &= txtAddress.Text.ToString() & "','"
            query &= ddlCity.SelectedValue.ToString() & "','"
            query &= txtPincode.Text.ToString() & "','"
            query &= txtPhone.Text.ToString() & "','"
            query &= ddlQualification.SelectedValue.ToString() & "','"
            Dim subs As String = ""
            For Each cb In cblSubjects.Items
                If cb.Selected = True Then
                    subs &= cb.Value.ToString() & ","
                End If
            Next
            query &= subs & "','"
            query &= txtPercentage.Text.ToString() & ");"
            cmd.CommandText = query
            cmd.ExecuteNonQuery()
            conn.Close()
            Response.Redirect("EmpHome.aspx?Name=" & txtFname.Text.ToString())
        End If

    End Sub

    Protected Sub PincodeValidator_ServerValidate(source As Object, args As ServerValidateEventArgs)
Handles PincodeValidator.ServerValidate

        Dim val As String
        val = args.Value.ToString()
```

```vbnet
        Dim rg As New Regex("^[0-9]{6}$")
        If args Is Nothing Then
            args.IsValid = False
        End If
        If (rg.IsMatch(val)) Then
            args.IsValid = True
        Else
            args.IsValid = False
        End If

    End Sub

    Protected Sub PhoneValidator_ServerValidate(source As Object, args As ServerValidateEventArgs)
Handles PhoneValidator.ServerValidate

        Dim val As String
        val = args.Value.ToString()
        Dim rg As New Regex("\d{10}")
        If args Is Nothing Then
            args.IsValid = False
        End If
        If (rg.IsMatch(val)) Then
            args.IsValid = True
        Else
            args.IsValid = False
        End If

    End Sub

    Protected Sub PercentageValidator_ServerValidate(source As Object, args As ServerValidateEventArgs)
Handles PercentageValidator.ServerValidate
        Try
            Dim val As Integer
            val = Integer.Parse(args.Value.ToString())
            If (val <= 100) Then
                args.IsValid = True
            Else
                args.IsValid = False
            End If

        Catch ex As Exception
            args.IsValid = False
        End Try
    End Sub
End Class
```

Output:

Practical : 20

Aim: Create a webpage, that allows user to add a new username if user doesn't exist in the database. Also create a forgot password link, to redirect user to set up his new password on authentication.

UserLogin.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="UserLogin.aspx.vb"
Inherits="HelloWorldWebApp.UserLogin" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style2 {
            width: 162px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <table>
                <tr>
                    <td colspan="3"><h2>Login</h2></td>
                </tr>
                <tr>
                    <td>Username</td>
                    <td>
                        <asp:TextBox ID="txtUsername" runat="server"></asp:TextBox>
                    </td>
                    <td class="auto-style2">
                        <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
                        ControlToValidate="txtUsername"
                        ErrorMessage="Enter a username">
                        </asp:RequiredFieldValidator>
                    </td>
                </tr>
```

```
      <tr>
        <td>Password</td>
        <td>
          <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox>
        </td>
        <td class="auto-style2">
          <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
          ControlToValidate="txtPassword"
          ErrorMessage="Enter password">
          </asp:RequiredFieldValidator>
        </td>
      </tr>
      <tr>
        <td colspan="3">
          <asp:Button ID="btnLogin" runat="server" Text="Login" style="height: 29px" />
        </td>
      </tr>
      <tr>
        <td colspan="3">
          <asp:Label ID="lblErrorMsg" runat="server" Text=""></asp:Label>
        </td>
      </tr>
    </table>
  </div>
</form>
</body>
</html>
```
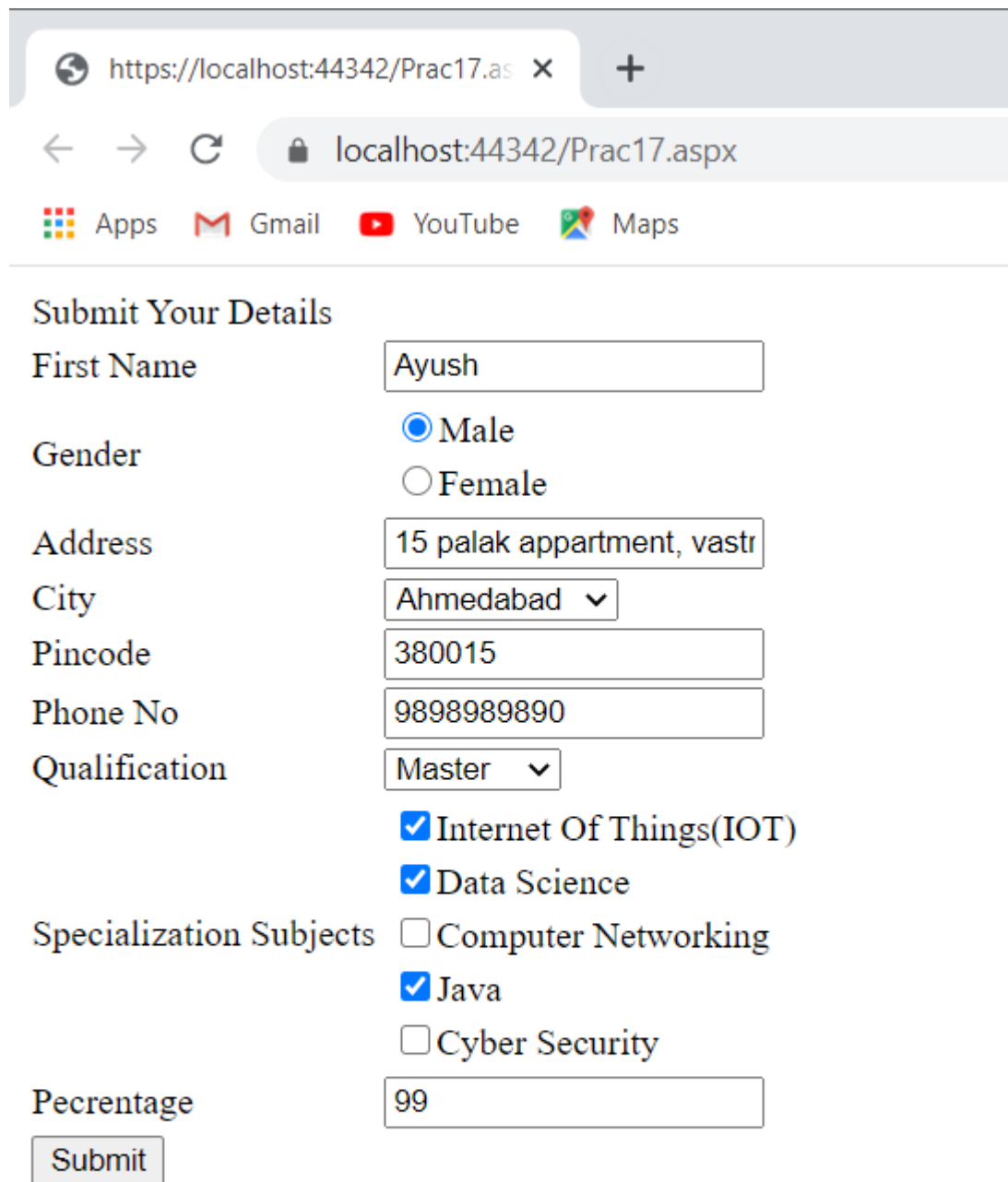
UserLogin.aspx.vb

```
Imports System.Data.SqlClient
Public Class UserLogin
  Inherits System.Web.UI.Page

  Dim conn As New
      SqlConnection("DataSource=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\sour
      ce\repos\HelloWorldWebApp\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated
      Security=True")

  Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

  End Sub

  Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
    Dim query As String
    query = "select * from users where username like '" & txtUsername.Text.ToString() & "';"
    conn.Open()
    Dim DataAdapt As New SqlDataAdapter(query, conn)
    Dim ds As New DataSet
```

```
        DataAdapt.Fill(ds)
        If Not (ds.Tables(0).Rows.Count = 0) Then
            If txtPassword.Text.ToString() = ds.Tables(0).Rows(0).ItemArray(3).ToString() Then
                Session("username") = txtUsername.Text.ToString()
                Response.Redirect("~/HomePage.aspx")
            Else
                Session("forgetpassusername") = txtUsername.Text.ToString()
                lblErrorMsg.Text = "Password in incorrect... <a href=""ForgetPass.aspx"">Forget
Password?</a>"
            End If
        Else
            lblErrorMsg.Text = "Username not registered... <a href=""UserRegistration.aspx"">New User?</a>"
        End If
        conn.Close()
    End Sub
End Class
```

UserRegistration.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="UserRegistration.aspx.vb"
Inherits="HelloWorldWebApp.UserRegistration" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style2 {
            width: 322px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>

            <table border="0">
                <tr>
                    <td colspan="2"><h1>SignUp</h1></td>
                </tr>
                <tr>
                    <td class="auto-style2">UserName</td>
                    <td>
                        <asp:TextBox ID="txtUsername" runat="server"></asp:TextBox>
                        <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
                                ErrorMessage="Username is required"
                        ControlToValidate="txtUsername"></asp:RequiredFieldValidator>
                    </td></tr>
```

```
<tr>
  <td class="auto-style2">Email</td>
  <td>
    <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
    ErrorMessage="Email is required"
    ControlToValidate="txtEmail"></asp:RequiredFieldValidator>
  </td>
</tr>
<tr>
  <td class="auto-style2">Mobile</td>
  <td>
    <asp:TextBox ID="txtMobile" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"
    ErrorMessage="Mobile number is required"
    ControlToValidate="txtMobile"></asp:RequiredFieldValidator>
  </td>
</tr>
<tr>
  <td class="auto-style2">Password</td>
  <td>
    <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator4" runat="server"
    ErrorMessage="Passowrd is required"
    ControlToValidate="txtPassword"></asp:RequiredFieldValidator>
  </td>
</tr>
<tr>
  <td class="auto-style2">Confirm Password</td>
  <td>
    <asp:TextBox ID="txtConfirmPassword" runat="server"
    TextMode="Password"></asp:TextBox>
    <asp:CompareValidator ID="CompareValidator1" runat="server"
    ErrorMessage="Passwords dont match" ControlToValidate="txtConfirmPassword"
    ControlToCompare="txtPassword"></asp:CompareValidator>
  </td>
</tr>
<tr>
  <td colspan="2">
    <asp:Button ID="btnSignup" runat="server" Text="SignUp" />
  </td>
</tr>
<tr>
  <td colspan="2">
    <asp:Label ID="lblError" runat="server"></asp:Label>
  </td>
</tr>
    </table>
  </div>
</form></body></html>
```

UserRegistration.aspx.vb

```vb
Imports System.Data.SqlClient
Public Class UserRegistration
    Inherits System.Web.UI.Page

    Dim conn As New
        SqlConnection("DataSource=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\sour
ce\repos\HelloWorldWebApp\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

    End Sub

    Protected Sub btnSignup_Click(sender As Object, e As EventArgs) Handles btnSignup.Click
        Dim query1 As String
        query1 = "select * from users where username Like '" & txtUsername.Text.ToString() & "';"
        conn.Open()
        Dim DataAdapt As New SqlDataAdapter(query1, conn)
        Dim ds As New DataSet
        DataAdapt.Fill(ds)
        If ds.Tables(0).Rows.Count = 0 Then
            Dim cmb As New SqlCommandBuilder(DataAdapt)
            cmb.GetInsertCommand()
            Dim dr As DataRow = ds.Tables(0).NewRow()
            dr("username") = txtUsername.Text.ToString()
            dr("email") = txtEmail.Text.ToString()
            dr("mobile") = txtMobile.Text.ToString()
            dr("password") = txtConfirmPassword.Text.ToString()
            ds.Tables(0).Rows.Add(dr)
            DataAdapt.Update(ds)
            Response.Redirect("~/HomePage.aspx")
        Else
            lblError.Text = "Username already taken... <a href=""UserLogin.aspx"">Have an account?
Login</a>"
        End If
        conn.Close()
    End Sub
End Class
```

ForgetPass.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="ForgetPass.aspx.vb"
Inherits="HelloWorldWebApp.ForgetPass" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 100%;
        }
        .auto-style2 {
            width: 184px;
        }
        .auto-style3 {
            width: 276px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <table class="auto-style1">
                <tr>
                    <td colspan="3"><h2>Forget Password for <%= Session("forgetpassusername") %></h2></td>
                </tr>
                <tr>
                    <td class="auto-style3">Email</td>
                    <td class="auto-style2">
                        <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
                    </td>
                    <td>
                        <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
                        ControlToValidate="txtEmail" Display="Dynamic"
                        ErrorMessage="Email is required"></asp:RequiredFieldValidator>
                        <asp:Label ID="lblError" runat="server"></asp:Label>
                    </td>
                </tr>
                <tr>
                    <td class="auto-style3">New Password</td>
                    <td class="auto-style2">
                        <asp:TextBox ID="txtNewPassword" runat="server" TextMode="Password">
                        </asp:TextBox>
                    </td>
```

```
            <td>
              <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
              ControlToValidate="txtNewPassword"
              ErrorMessage="New Password is required"></asp:RequiredFieldValidator>
            </td>
          </tr>
          <tr>
            <td class="auto-style3">Confirm Password</td>
            <td class="auto-style2">
              <asp:TextBox ID="txtConfirmPassword" runat="server" TextMode="Password">
              </asp:TextBox>
            </td>
            <td>
              <asp:CompareValidator ID="CompareValidator1" runat="server"
              ControlToCompare="txtNewPassword" ControlToValidate="txtConfirmPassword"
               ErrorMessage="Passwords dont match"></asp:CompareValidator>
            </td>
          </tr>
          <tr>
            <td colspan="3">
              <asp:Button ID="btnSubmit" runat="server" Text="Change Password" />
            </td>
          </tr>
        </table>
      </div>
    </form>
</body>
</html>
```

ForgetPass.aspx

```
Imports System.Data.SqlClient
Public Class ForgetPass
    Inherits System.Web.UI.Page

    Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebAp
p\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

    End Sub

    Protected Sub btnSubmit_Click(sender As Object, e As EventArgs) Handles btnSubmit.Click
        Dim query As String
        query = "select * from users where username like '" & Session("forgetpassusername").ToString() & "';"
        conn.Open()
        Dim DataAdapt As New SqlDataAdapter(query, conn)
        Dim ds As New DataSet
```

```
    DataAdapt.Fill(ds)
    If ds.Tables(0).Rows(0).ItemArray(1).ToString() = txtEmail.Text.ToString() Then
        Dim cmb As New SqlCommandBuilder(DataAdapt)
        cmb.GetUpdateCommand()
        ds.Tables(0).Rows.Item(0)("password") = txtConfirmPassword.Text.ToString()
        DataAdapt.Update(ds)
        Session("username") = Session("forgetpassusername").ToString()
        Response.Redirect("~/HomePage.aspx")
    Else
        lblError.Text = "Email verification failed"
    End If
    End Sub
End Class
```
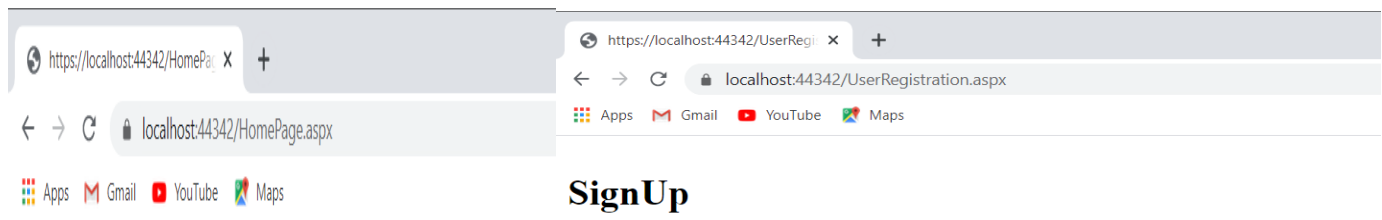
Output

Practical : 21

Aim: Create a webpage to display the information about user on his homepage once he has logged in through the login form.

Login.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Login.aspx.vb"
Inherits="HelloWorldWebApp.Login" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 100%;
        }
        .auto-style2 {
            width: 218px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <table class="auto-style1">
                <tr>
                    <td colspan="2"><h1>Login</h1></td>
                </tr>
                <tr>
                    <td class="auto-style2">Mobile Number</td>
                    <td>
                        <asp:TextBox ID="txtMobile" runat="server"></asp:TextBox>
                    </td>
                </tr>
                <tr>
                    <td class="auto-style2">Password</td>
                    <td>
                        <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox>
                    </td>
                </tr>
```
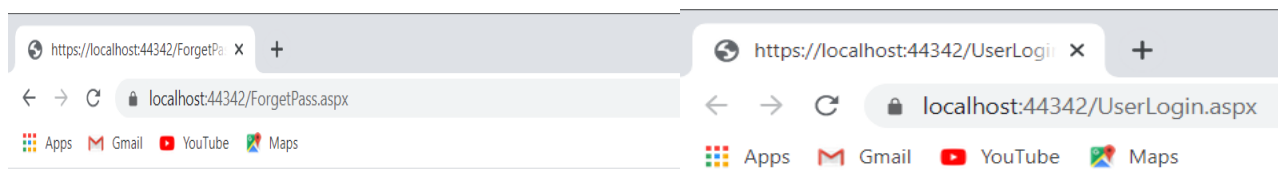
```
      <tr>
        <td colspan="2">
           <asp:Button ID="btnLogin" runat="server" Text="Login" />
           <asp:Label ID="lblError" runat="server"></asp:Label>
        </td>
      </tr>
    </table>
  </div>
  </form>
</body>
</html>
```

Login.aspx.vb

```vb
Imports System.Data.SqlClient
Public Class Login
  Inherits System.Web.UI.Page

  Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

  End Sub
  Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebAp
p\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

  Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
    Dim query As String = "select password from biodata where phone like '"
                          & txtMobile.Text.ToString() & "';"
    conn.Open()
    Dim adapt As New SqlDataAdapter(query, conn)
    Dim ds As New DataSet
    adapt.Fill(ds)
    If Not (ds.Tables(0).Rows.Count = 0) Then
      If ds.Tables(0).Rows(0).ItemArray(0).ToString() = txtPassword.Text.ToString() Then
        Session("phone") = txtMobile.Text.ToString()
        Response.Redirect("~/EmpHome.aspx")
      Else
        lblError.Text = "Incorrect Password"
      End If
    Else
      lblError.Text = "User not found"
    End If

  End Sub
End Class
```

EmpHome.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="EmpHome.aspx.vb"
Inherits="HelloWorldWebApp.EmpHome" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 100%;
        }
        .auto-style2 {
            width: 469px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
            <br />
            <br />
            <table class="auto-style1" border="1">
                <tr>
                    <td class="auto-style2">Specialized Subjects</td>
                    <td>
                        <asp:Label ID="Label2" runat="server" Text="Label"></asp:Label>
                    </td>
                </tr>
                <tr>
                    <td class="auto-style2">City</td>
                    <td>
                        <asp:Label ID="Label3" runat="server" Text="Label"></asp:Label>
                    </td>
                </tr>
                <tr>
                    <td class="auto-style2">Gender</td>
                    <td>
                        <asp:Label ID="Label4" runat="server" Text="Label"></asp:Label>
                    </td>
                </tr>
                <tr>
                    <td class="auto-style2">Percentage</td>
                    <td>
                        <asp:Label ID="Label5" runat="server" Text="Label"></asp:Label>
                    </td>
                </tr>
```

```
          <tr>
            <td class="auto-style2">Mobile</td>
            <td>
              <asp:Label ID="Label6" runat="server" Text="Label"></asp:Label>
            </td>
          </tr>
          <tr>
            <td class="auto-style2">Address</td>
            <td>
              <asp:Label ID="Label7" runat="server" Text="Label"></asp:Label>
            </td>
          </tr>
          <tr>
            <td class="auto-style2">Qualification</td>
            <td>
              <asp:Label ID="Label8" runat="server" Text="Label"></asp:Label>
            </td>
          </tr>
        </table>
      </div>
    </form>
</body>
</html>
```

EmpHome.aspx.vb

```
Imports System.Data.SqlClient
Public Class EmpHome
    Inherits System.Web.UI.Page

    Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebApp\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        If Session("phone") IsNot Nothing Then
            Dim cmd As New SqlCommand()
            Dim query As String = "select * from biodata where phone like '" & Session("phone") & "';"
            conn.Open()
            cmd.Connection = conn
            cmd.CommandText = query
            Dim reader As SqlDataReader = cmd.ExecuteReader()
            While reader.Read()
                Label1.Text = "Welcome " & reader.GetString(0).ToString()
                Label2.Text = reader.GetString(7).ToString()
                Label3.Text = reader.GetString(3).ToString()
                Label4.Text = reader.GetString(1).ToString()
                Label5.Text = reader.GetInt32(8).ToString()
                Label6.Text = reader.GetString(5).ToString()
                Label7.Text = reader.GetString(2).ToString()
```

```
        Label8.Text = reader.GetString(4).ToString()
    End While
    conn.Close()
  Else
    Response.Redirect("~/Login.aspx")
  End If
End Sub
End Class
```

Output:
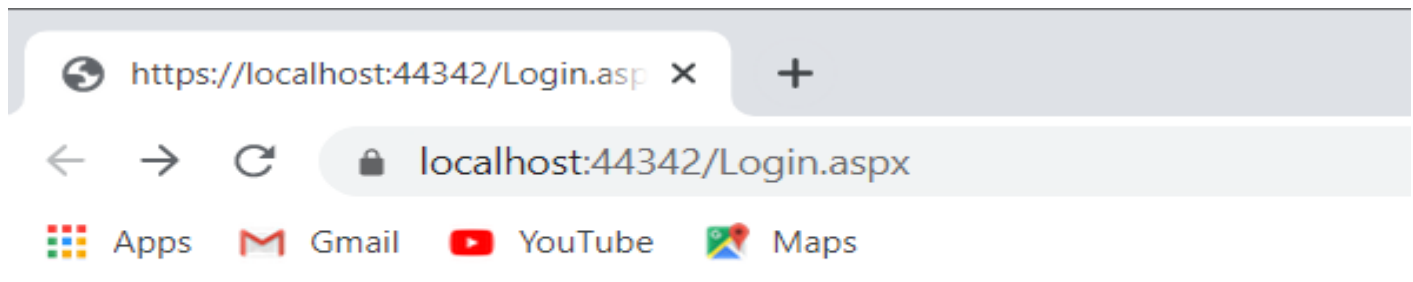
Login

| Mobile Number | 9898989890 |
| Password | ••••• |

Login

Welcome Ayush

Specialized Subjects	IOT,Data Science,Java,
City	Ahmedabad
Gender	Male
Percentage	99
Mobile	9898989890
Address	15 palak appartment, vastrapur
Qualification	380015

Practical : 22

Aim: Write an exercise, to allow the user to ADD, UPDATE,

MODIFY his profile once he has logged into the website

using Bound and Unbound Controls.

Login.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Login.aspx.vb"
Inherits="HelloWorldWebApp.Login" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 100%;
        }
        .auto-style2 {
            width: 218px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <table class="auto-style1">
                <tr>
                    <td colspan="2"><h1>Login</h1></td>
                </tr>
                <tr>
                    <td class="auto-style2">Email</td>
                    <td>
                        <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
                    </td>
                </tr>
                <tr>
                    <td class="auto-style2">Password</td>
                    <td>
                        <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox>
                    </td>
                </tr>
```

```
      <tr>
        <td colspan="2">
          <asp:Button ID="btnLogin" runat="server" Text="Login" />
          <asp:Label ID="lblError" runat="server"></asp:Label>
        </td>
      </tr>
    </table>
  </div>
</form>
</body>
</html>
```

Login.aspx.vb

```
Imports System.Data.SqlClient
Public Class Login
  Inherits System.Web.UI.Page

  Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

  End Sub
  Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebAp
p\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

  Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
    Dim query As String = "select password from biodata where email like '" & txtEmail.Text.ToString() &
"';"
    conn.Open()
    Dim adapt As New SqlDataAdapter(query, conn)
    Dim ds As New DataSet
    adapt.Fill(ds)
    If Not (ds.Tables(0).Rows.Count = 0) Then
      If ds.Tables(0).Rows(0).ItemArray(0).ToString() = txtPassword.Text.ToString() Then
        Session("email") = txtEmail.Text.ToString()
        Response.Redirect("~/EmpHome.aspx")
      Else
        lblError.Text = "Incorrect Password"
      End If
    Else
      lblError.Text = "User not found"
    End If

  End Sub
End Class
```

EmpHome.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="EmpHome.aspx.vb"
Inherits="HelloWorldWebApp.EmpHome" %>

<!DOCTYPE html>

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

       <asp:DetailsView ID="DetailsView1" runat="server" AutoGenerateRows="False"
       DataKeyNames="email" DataSourceID="SqlDataSource1" Height="50px" Width="125px">
         <Fields>
           <asp:BoundField DataField="email" HeaderText="email" ReadOnly="True"
             SortExpression="email" />
           <asp:BoundField DataField="ename" HeaderText="name" SortExpression="ename" />
           <asp:BoundField DataField="gender" HeaderText="gender" SortExpression="gender" />
           <asp:BoundField DataField="address" HeaderText="address" SortExpression="address" />
           <asp:BoundField DataField="city" HeaderText="city" SortExpression="city" />
           <asp:BoundField DataField="pincode" HeaderText="pincode" SortExpression="pincode" />
           <asp:BoundField DataField="phone" HeaderText="phone" SortExpression="phone" />
           <asp:BoundField DataField="qualification" HeaderText="qualification"
             SortExpression="qualification" />
           <asp:BoundField DataField="specsubjects" HeaderText="specsubjects"
             SortExpression="specsubjects" />
           <asp:BoundField DataField="percentage" HeaderText="percentage"
             SortExpression="percentage" />
           <asp:CommandField ShowEditButton="True" />
         </Fields>
       </asp:DetailsView>
       <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConflictDetection="CompareAllValues"
ConnectionString="<%$ ConnectionStrings:ConnectionString %>"
OldValuesParameterFormatString="original_{0}" SelectCommand="SELECT * FROM [Biodata]"
UpdateCommand="UPDATE [Biodata] SET [ename] = @ename, [gender] = @gender, [address] =
@address, [city] = @city, [pincode] = @pincode, [phone] = @phone, [qualification] = @qualification,
[specsubjects] = @specsubjects, [percentage] = @percentage WHERE [email] = @original_email AND
[ename] = @original_ename AND [gender] = @original_gender AND [address] = @original_address AND
[city] = @original_city AND [pincode] = @original_pincode AND [phone] = @original_phone AND
[qualification] = @original_qualification AND [specsubjects] = @original_specsubjects AND [percentage]
= @original_percentage">
         <UpdateParameters>
           <asp:Parameter Name="ename" Type="String" />
           <asp:Parameter Name="gender" Type="String" />
           <asp:Parameter Name="address" Type="String" />
```

```
                <asp:Parameter Name="city" Type="String" />
                <asp:Parameter Name="pincode" Type="String" />
                <asp:Parameter Name="phone" Type="String" />
                <asp:Parameter Name="qualification" Type="String" />
                <asp:Parameter Name="specsubjects" Type="String" />
                <asp:Parameter Name="percentage" Type="Int32" />
                <asp:Parameter Name="original_email" Type="String" />
                <asp:Parameter Name="original_ename" Type="String" />
                <asp:Parameter Name="original_gender" Type="String" />
                <asp:Parameter Name="original_address" Type="String" />
                <asp:Parameter Name="original_city" Type="String" />
                <asp:Parameter Name="original_pincode" Type="String" />
                <asp:Parameter Name="original_phone" Type="String" />
                <asp:Parameter Name="original_qualification" Type="String" />
                <asp:Parameter Name="original_specsubjects" Type="String" />
                <asp:Parameter Name="original_percentage" Type="Int32" />
            </UpdateParameters>
        </asp:SqlDataSource>

        <br />

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

EmpHome.aspx.vb

```vb
Public Class EmpHome

    Inherits System.Web.UI.Page


    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

        If Session("email") Is Nothing Then

            Response.Redirect("~/Login.aspx")

        End If

    End Sub

End Class
```

Practical : 23

Aim: Create a webpage to bind the user data from database into a gridview dynamically.

GvBinding.aspx

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="GvBinding.aspx.vb"
Inherits="HelloWorldWebApp.GvBinding" %>

<!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>
```

GvBinding.aspx.vb

```
Imports System.Data.SqlClient
Public Class GvBinding
    Inherits System.Web.UI.Page

    Dim conn As New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Ayush\source\repos\HelloWorldWebApp\HelloWorldWebApp\App_Data\SampleDB.mdf;Integrated Security=True")

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        Dim query As String = "select * from Employee"
        conn.Open()
        Dim adapter As New SqlDataAdapter(query, conn)
        Dim ds As New DataSet()
        adapter.Fill(ds)
        GridView1.DataSource = ds
        GridView1.DataBind()
```

```
        conn.Close()
    End Sub
End Class
```
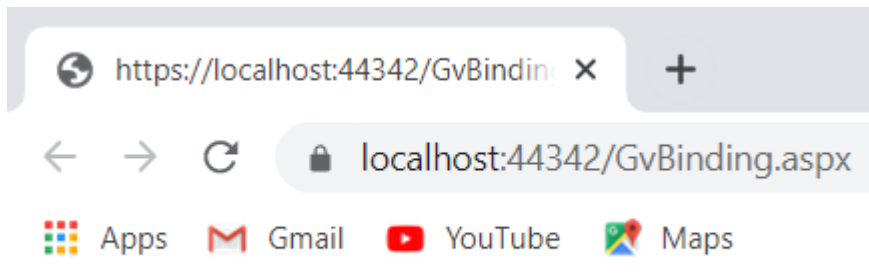
Output

Practical : 24

Aim: Create a simple web application that integrates the above

concepts of ASP.NET into your application. Suggestive web

application can be your own Personal website and host on

free domain, Your department website etc.

File: Base.master

```
<%@ Master Language="VB" AutoEventWireup="false" CodeBehind="Base.master.vb"
Inherits="PersonalBlog.Base" %>

<!DOCTYPE html>

<html>
<head runat="server">
   <title></title>
   <asp:ContentPlaceHolder ID="head" runat="server">
   </asp:ContentPlaceHolder>

   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
crossorigin="anonymous">

   <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.0/css/all.css" integrity="sha384-
lZN37f5QGtY3VHgisS14W3ExzMWZxybE1SJSEsQp9S+oqd12jhcu+A56Ebc1zFSJ"
crossorigin="anonymous">

   <link rel="stylesheet" href="Content/Css/Style.css" />
</head>
<body>

   <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
      <a class="navbar-brand" href="Home.aspx">ProgrammingWithAyush</a>
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
         <div class="navbar-nav ml-auto">
            <a class="nav-link" href="Home.aspx">Home</a>
            <a class="nav-link" href="Home.aspx#about">About</a>
            <a class="nav-link" href="Posts.aspx">Posts</a>
            <% If Session("isadmin") Then %>
            <a class="nav-link" href="AddPost.aspx">Add Post</a>
            <% End If %>
            <% If Session("user") Is Nothing Then %>
```

```
              <a class="nav-link" href="Login.aspx">Login</a>
              <% Else %>
                   <span class="nav-link"><i class='far fa-user-circle'
                   style='color:white'></i>   <%= Session("user") %></span>
              <% End If  %>
           </div>
        </div>
     </nav>
     <form id="form1" runat="server" style="margin: 0%; padding: 0%">
        <asp:ContentPlaceHolder ID="BodyContent" runat="server">
        </asp:ContentPlaceHolder>
     </form>
     <div class="ftr">
        <p style="margin: 0%; padding: 1%">&#169; Ayush Solanki</p>
     </div>
     <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
     <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtN/tE3MoK7ZeZDyx"
crossorigin="anonymous"></script>
</body>
</html>
```

File: Style.css

```
*{
   max-width: 100%;
   padding: 0%;
   margin: 0%;
}
#dv {
   background-color: transparent;
   background: rgba(0,0,0,0.9) url("../Imgs/bg.jpg") no-repeat center center/cover;
   background-blend-mode: darken;
   margin: 0;
   height: 100vh;
}

.row{
   margin:2%;
}
.ftr{
   width: 100%;
   background-color: rgb(25, 25, 25);
   color: white;
   text-align: center;
}
```

File: Home.aspx

```
<%@ Page Title="" Language="vb" AutoEventWireup="false" MasterPageFile="~/Base.Master"
CodeBehind="Home.aspx.vb" Inherits="PersonalBlog.Home" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">


</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="BodyContent" runat="server">
    <div class="jumbotron jumbotron-fluid" id="dv">
        <div class="container text-white home-content">
            <h1 class="display-4">Welcome to Programming with Ayush</h1>
            <br />
            <p class="lead">One place for all programming languages solutions.....</p>
            <br />
            <p class="lead">Projects in Python, Java, Android etc.......</p>
        </div>
    </div>
    <div class="row" id="about">
        <div class="col-10">
            <h3>About</h3>
            <br />
            <p>
                Here at Programming with Ayush, we post different programming related projects. We believe in
                    quality of the projects by delivering them as quickly as possible. Experts of different
                    technologies build togather a strong team to complete high level projects.
                    <br />
                We build projects in every language including python,java,javascript,c++ etc.
                    We also use top quality frameworks like Django, Dotnet, Laravel etc.
            </p>
        </div>
        <div class="col-2">
            <img src="../Content/Imgs/home-cont.jpg" style="border-radius: 50%" />
        </div>
    </div>

</asp:Content>
```

File: Login.aspx

```
<%@ Page Title="" Language="vb" AutoEventWireup="false" MasterPageFile="~/Base.Master"
CodeBehind="Login.aspx.vb" Inherits="PersonalBlog.Login" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="BodyContent" runat="server">
    <div class="container ml-auto" style="width: 50%;padding:5%;padding-top:2%">
        <h1>Login</h1>
        <br />
        <div class="form-group">
            <label for="txtEmail">Email address</label>
            <asp:TextBox ID="txtEmail" runat="server" CssClass="form-control"></asp:TextBox>
            <asp:Label ID="lblEmailErrors" Text="" runat="server" CssClass="form-text text-danger">
            </asp:Label>
            <asp:RequiredFieldValidator ID="valReqEmail" runat="server" ErrorMessage="Email is required"
            ControlToValidate="txtEmail" CssClass="form-text text-danger"
            Display="Dynamic"></asp:RequiredFieldValidator>
            <asp:RegularExpressionValidator ID="valEmail" runat ="server" ErrorMessage="Enter valid email"
            ControlToValidate="txtEmail" CssClass="form-text text-danger" Display="Dynamic"
            ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*">
            </asp:RegularExpressionValidator>
        </div>

        <div class="form-group">
            <label for="txtPassword">Password</label>
            <asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password">
            </asp:TextBox>
            <asp:RequiredFieldValidator ID="valPassword" runat="server" ErrorMessage="Enter Password"
            ControlToValidate="txtPassword" CssClass="form-text text-danger" Display="Dynamic">
            </asp:RequiredFieldValidator>
        </div>

        <asp:Button ID="btnLogin" runat="server" CssClass="btn btn-success" Text="Login"></asp:Button>
        <br />
        <br />
        <p class="text-primary">New user? <a href="Register.aspx">Register</a></p>
    </div>
</asp:Content>
```

File: Login.aspx.vb

```vb
Imports System.Data.SqlClient
Imports System.Configuration.ConfigurationManager
Public Class Login
    Inherits System.Web.UI.Page

    Dim connString As String = ConnectionStrings("ConnectionString").ConnectionString.ToString()
    Dim conn As New SqlConnection(connString)
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

    End Sub

    Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
        Dim query As String = "select * from users where email like '" & txtEmail.Text.ToString() & "';"
        conn.Open()
        Dim adapter As New SqlDataAdapter(query, conn)
        Dim ds As New DataSet
        adapter.Fill(ds)
        If ds.Tables(0).Rows.Count = 0 Then
            lblEmailErrors.Text = "User not found"
        Else
            If txtPassword.Text.ToString() = ds.Tables(0).Rows(0).ItemArray(3).ToString() Then
                Session("user") = txtEmail.Text.ToString()
                Session("isadmin") = ds.Tables(0).Rows(0).ItemArray(2)
                Response.Redirect("~/Home.aspx")
            Else
                lblEmailErrors.Text = "Passwords Dont Match"
            End If
        End If
            conn.Close()
    End Sub
End Class
```

File: Register.aspx

```
<%@ Page Title="" Language="vb" AutoEventWireup="false" MasterPageFile="~/Base.Master"
CodeBehind="Register.aspx.vb" Inherits="PersonalBlog.Register" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="BodyContent" runat="server">
   <div class="container ml-auto" style="width: 50%;padding:5%;padding-top:2%">
      <h1>Register</h1>
      <br />
      <div class="form-group">
         <label for="txtEmail">Email address</label>
         <asp:TextBox ID="txtEmail" runat="server" CssClass="form-control"></asp:TextBox>
         <asp:Label ID="lblEmailErrors" Text="" runat="server" CssClass="form-text text-danger">
         </asp:Label>
         <asp:RequiredFieldValidator ID="valReqEmail" runat="server" ErrorMessage="Email is required"
         ControlToValidate="txtEmail" CssClass="form-text text-danger" Display="Dynamic">
         </asp:RequiredFieldValidator>
         <asp:RegularExpressionValidator ID="valEmail" runat ="server" ErrorMessage="Enter valid email"
         ControlToValidate="txtEmail" CssClass="form-text text-danger" Display="Dynamic"
         ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*">
         </asp:RegularExpressionValidator>
      </div>
      <div class="form-group">
         <label for="txtFname">Full Name</label>
         <asp:TextBox ID="txtFname" runat="server" CssClass="form-control"></asp:TextBox>
         <asp:RequiredFieldValidator ID="valFname" runat="server" ErrorMessage="Enter First name"
         ControlToValidate="txtFname" CssClass="form-text text-danger" Display="Dynamic">
         </asp:RequiredFieldValidator>
      </div>
      <div class="form-group">
         <label for="txtPassword">Password</label>
         <asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password">
         </asp:TextBox>
         <asp:RequiredFieldValidator ID="valPassword" runat="server" ErrorMessage="Enter Password"
         ControlToValidate="txtPassword" CssClass="form-text text-danger" Display="Dynamic">
         </asp:RequiredFieldValidator>
      </div>
      <div class="form-group">
         <label for="txtConfirmPassword">Confirm Password</label>
         <asp:TextBox ID="txtConfirmPassword" runat="server" CssClass="form-control"
         TextMode="Password">
         </asp:TextBox>
         <asp:RequiredFieldValidator ID="valReqPass" runat="server" ErrorMessage="Confirm your
         Password" ControlToValidate="txtConfirmPassword" CssClass="form-text text-danger"
         Display="Dynamic">
         </asp:RequiredFieldValidator>
```

```
      <asp:CompareValidator ID="valConfirmPassword" runat="server"
      ErrorMessage="Passwords dont match" ControlToValidate="txtConfirmPassword"
      ControlToCompare="txtPassword" Display="Dynamic" CssClass="form-text text-danger">
      </asp:CompareValidator>
    </div>
    <asp:Button ID="btnRegister" runat="server" CssClass="btn btn-success" Text="Register">
      </asp:Button>
    <br />
    <br />
    <p class="text-primary">Already a user? <a href="Login.aspx">Login</a></p>
  </div>
</asp:Content>
```

File: Register.aspx.vb

```vb
Imports System.Data.SqlClient
Imports System.Configuration.ConfigurationManager
Public Class Register
  Inherits System.Web.UI.Page
  Dim connString As String = ConnectionStrings("ConnectionString").ConnectionString.ToString()
  Dim conn As New SqlConnection(connString)
  Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
  End Sub
  Protected Sub btnRegister_Click(sender As Object, e As EventArgs) Handles btnRegister.Click
    Dim query As String = "select * from users where email like '" & txtEmail.Text.ToString() & "';"
    conn.Open()
    Dim adapter As New SqlDataAdapter(query, conn)
    Dim ds As New DataSet
    adapter.Fill(ds)
    If ds.Tables(0).Rows.Count = 0 Then
      Dim cmd As New SqlCommandBuilder(adapter)
      cmd.GetInsertCommand()
      Dim dr As DataRow = ds.Tables(0).NewRow()
      dr("email") = txtEmail.Text.ToString()
      dr("fname") = txtFname.Text.ToString()
      dr("isadmin") = 0
      dr("password") = txtConfirmPassword.Text.ToString()
      ds.Tables(0).Rows.Add(dr)
      adapter.Update(ds)
      Session("user") = txtEmail.Text.ToString()
      Session("isadmin") = 0
      Response.Redirect("~/Home.aspx")
    Else
      lblEmailErrors.Text = "Email Already exists"
    End If
    conn.Close()
  End Sub
End Class
```

File: AddPost.aspx

```
<%@ Page Title="" Language="vb" AutoEventWireup="false" MasterPageFile="~/Base.Master"
CodeBehind="AddPost.aspx.vb" Inherits="PersonalBlog.AddPost" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="BodyContent" runat="server">
   <div class="container ml-auto" style="width: 50%;padding:5%;padding-top:2%">
     <h1>Add New Post</h1>
     <br />
     <div class="form-group">
        <label for="txtHeading">Heading</label>
        <asp:TextBox ID="txtHeading" runat="server" CssClass="form-control"></asp:TextBox>
        <asp:RequiredFieldValidator ID="valReqHeading" runat="server"
        ErrorMessage="Heading is required" ControlToValidate="txtHeading"
        CssClass="form-text text-danger" Display="Dynamic">
        </asp:RequiredFieldValidator>
     </div>
     <div class="form-group">
        <label for="txtContent">Content</label>
        <asp:TextBox ID="txtContent" runat="server" CssClass="form-control" TextMode="MultiLine"
        Rows="5">
        </asp:TextBox>
        <asp:RequiredFieldValidator ID="valContent" runat="server" ErrorMessage="Write some
        content..." ControlToValidate="txtContent" CssClass="form-text text-danger" Display="Dynamic">
        </asp:RequiredFieldValidator>
     </div>
     <div class="form-group">
        <label for="fluImage">Upload Image</label>
        <asp:FileUpload ID="fluImage" runat="server" CssClass="form-control"/>
        <asp:RequiredFieldValidator ID="valImage" runat="server" ErrorMessage="Upload Image"
        ControlToValidate="fluImage" CssClass="form-text text-danger" Display="Dynamic">
        </asp:RequiredFieldValidator>
     </div>
     <asp:Button ID="btnPost" runat="server" CssClass="btn btn-primary" Text="Post"></asp:Button>
   </div>
</asp:Content>
```

File: AddPost.aspx.vb

```vb
Imports System.Data.SqlClient
Imports System.Configuration.ConfigurationManager
Imports System.IO
Imports System.Collections.Generic
Public Class AddPost
    Inherits System.Web.UI.Page

    Dim connString As String = ConnectionStrings("ConnectionString").ConnectionString.ToString()
    Dim conn As New SqlConnection(connString)

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        If Session("user") Is Nothing Then
            Response.Redirect("~/Login.aspx")
        ElseIf Not (Session("isadmin")) Then
            Response.Redirect("~/Home.aspx")
        End If
    End Sub

    Protected Sub btnPost_Click(sender As Object, e As EventArgs) Handles btnPost.Click
        Dim query As String = "select * from posts;"
        If fluImage.HasFile Then
            Dim fileName As String = Path.GetFileName(fluImage.PostedFile.FileName)
            fluImage.PostedFile.SaveAs(Server.MapPath("~/Content/PostedImages/") + fileName)
            conn.Open()
            Dim adapter As New SqlDataAdapter(query, conn)
            Dim ds As New DataSet
            adapter.Fill(ds)
            Dim cmd As New SqlCommandBuilder(adapter)
            cmd.GetInsertCommand()
            Dim dr As DataRow = ds.Tables(0).NewRow()
            dr("Heading") = txtHeading.Text.ToString()
            dr("Content") = txtContent.Text.ToString()
            dr("Imgname") = fileName
            ds.Tables(0).Rows.Add(dr)
            adapter.Update(ds)
            conn.Close()
        End If

    End Sub
End Class
```

File: Posts.aspx

```
<%@ Page Title="" Language="vb" AutoEventWireup="false" MasterPageFile="~/Base.Master"
CodeBehind="Posts.aspx.vb" Inherits="PersonalBlog.Posts" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="BodyContent" runat="server">
   <asp:Repeater ID="Repeater1" runat="server">
     <HeaderTemplate>
     <div class="container ml-auto" style="width: 75%;padding:5%;padding-top:2%">

   </HeaderTemplate>
   <ItemTemplate>
     <div class="row border border-secondary">
       <div class="col-10">
         <p class="h3"><%# Eval("Heading") %></p>
         <p><%# Eval("Content") %></p>
       </div>
       <div class="col-2">

         <img src='Content/PostedImages/<%#Eval("Imgname")%>' style="width:100%;height:100%"/>

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

   </ItemTemplate>
   <FooterTemplate>
     </div>
   </FooterTemplate>
   </asp:Repeater>
</asp:Content>
```

File: Posts.aspx.vb

```vb
Imports System.Data.SqlClient
Imports System.Configuration.ConfigurationManager
Imports System.IO
Imports System.Collections.Generic
Public Class Posts
    Inherits System.Web.UI.Page

    Dim connString As String = ConnectionStrings("ConnectionString").ConnectionString.ToString()
    Dim conn As New SqlConnection(connString)

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        Dim query As String = "select * from posts;"
        Dim adapter As New SqlDataAdapter(query, conn)
        Dim ds As New DataSet
        adapter.Fill(ds)
        Repeater1.DataSource = ds.Tables(0)
        Repeater1.DataBind()
    End Sub
End Class
```

Output: