Lab Assignment – 1

1. Create ASP.NET page to accept a name from the user and display welcome message.

Que_1.aspx Code

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Que_1.aspx.cs"
Inherits="AssingmentsWeb.Assingment1.Que_1" %>

<!DOCTYPE html>

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

<head runat="server">

    <title></title>

</head>

<body>

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

        <asp:Label ID="Label1" runat="server" Text="23SOECE13001_URVISHA
BALDHA"></asp:Label>

        <br />

        <br />

        <asp:Label ID="Label2" runat="server" Text="Enter your name :"></asp:Label>

 

        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>

        <br />

        <br />

        <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Submit" />

        <br />

        <br />

        <asp:Label ID="Label3" runat="server"></asp:Label>

    </form>
```

```
        </body>

    </html>
```

Que_1.aspx.cs Code

```csharp
using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace AssingmentsWeb.Assingment1

{

    public partial class Que_1 : System.Web.UI.Page

    {

        protected void Page_Load(object sender, EventArgs e)

        {

        }

        protected void Button1_Click(object sender, EventArgs e)

        {

            string userName = TextBox1.Text; // Get the user's name

            if (!string.IsNullOrWhiteSpace(userName))

            {

                Label3.Text = "Welcome, " + userName + "!";

            }

            else

            {

                Label3.Text = "Please enter your name.";

            }
```
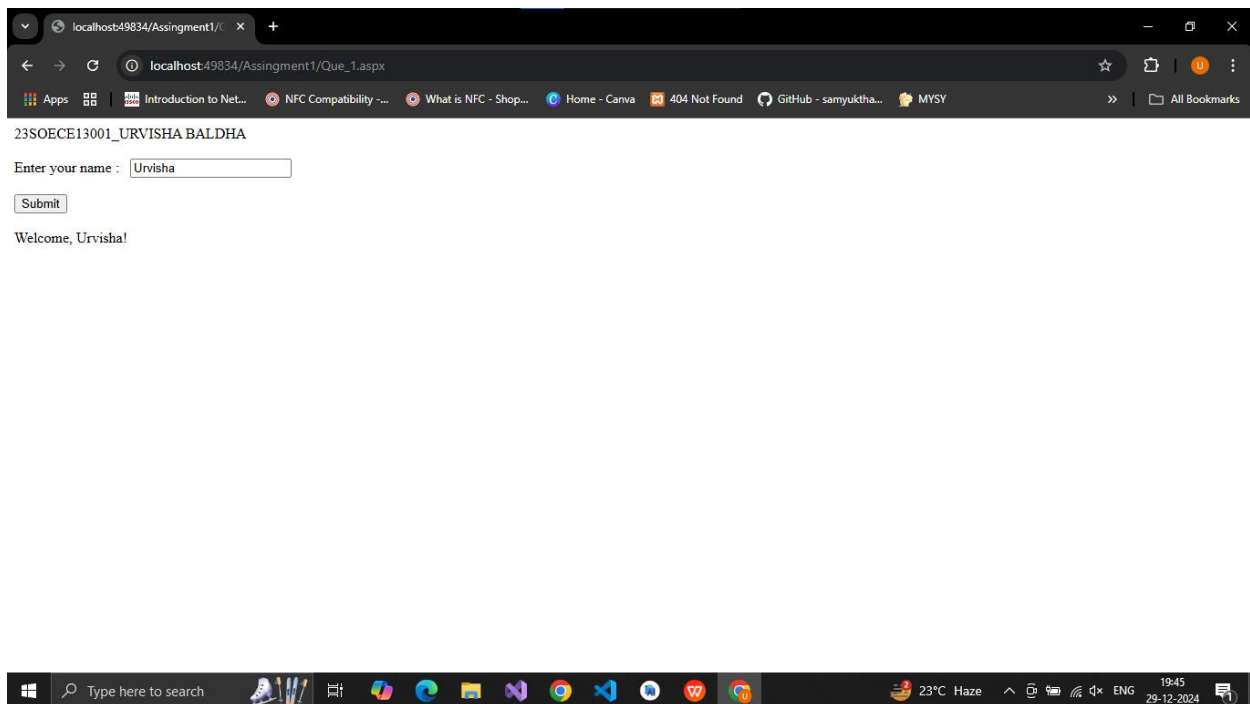
```
        }

    }

}
```

Output Screenshot:

2. Create ASP.NET page to generate the Temperature Conversion.

Que_2.aspx Code

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Que_2.aspx.cs" Inherits="AssingmentsWeb.Assingment1.Que_2" %>

<!DOCTYPE html>

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

```
    <title>Temperature Conversion</title>
    <link            href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"
rel="stylesheet" />
</head>
<body>
    <form id="form1" runat="server">
        <asp:Label ID="Label1" runat="server" Text="23SOECE13001_URVISHA BALDHA"></asp:Label>
        <br />
        <br />
        <asp:Label ID="Label2" runat="server" Text="Temperature Conversion"></asp:Label>
        <br />
        <br />
        <asp:Label ID="Label3" runat="server" Text="Enter Tempreture :"></asp:Label>
 
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <br />
        <br />
        <asp:Label ID="Label4" runat="server" Text="Conversion Type :"></asp:Label>

 
        <asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="True">
            <asp:ListItem Value="CtoF">Celsius to Fahrenheit</asp:ListItem>
            <asp:ListItem Value=" FtoC"> Fahrenheit to Celsius</asp:ListItem>
        </asp:DropDownList>
        <br />
        <asp:Button ID="Button1" runat="server" Text="Convert" OnClick="Button1_Click" />
        <br />
        <br />
        <asp:Label ID="Label5" runat="server" Text="Converted tempreture : "></asp:Label>

     <asp:Label ID="Label6" runat="server"></asp:Label>

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

Que_2.aspx.cs Code

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

namespace AssingmentsWeb.Assingment1
{
```

```
    public partial class Que_2 : System.Web.UI.Page
  {
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
      try
      {
        double temperature = double.Parse(TextBox1.Text);
        string conversionType = DropDownList1.SelectedValue;
        double convertedTemperature = 0;
        if (conversionType == "CtoF")
        {
          convertedTemperature = (temperature * 9 / 5) + 32;
          Label6.Text = $"{temperature}°C is equal to {convertedTemperature}°F.";
        }
        else if (conversionType == "FtoC")
        {
          convertedTemperature = (temperature - 32) * 5 / 9;
        Label6.Text = $"{temperature}°F is equal to {convertedTemperature}°C.";
        }
      }
      catch (FormatException)
      {
        Label6.Text = "Please enter a valid numeric value for temperature.";
      }
    }
  }
}
```
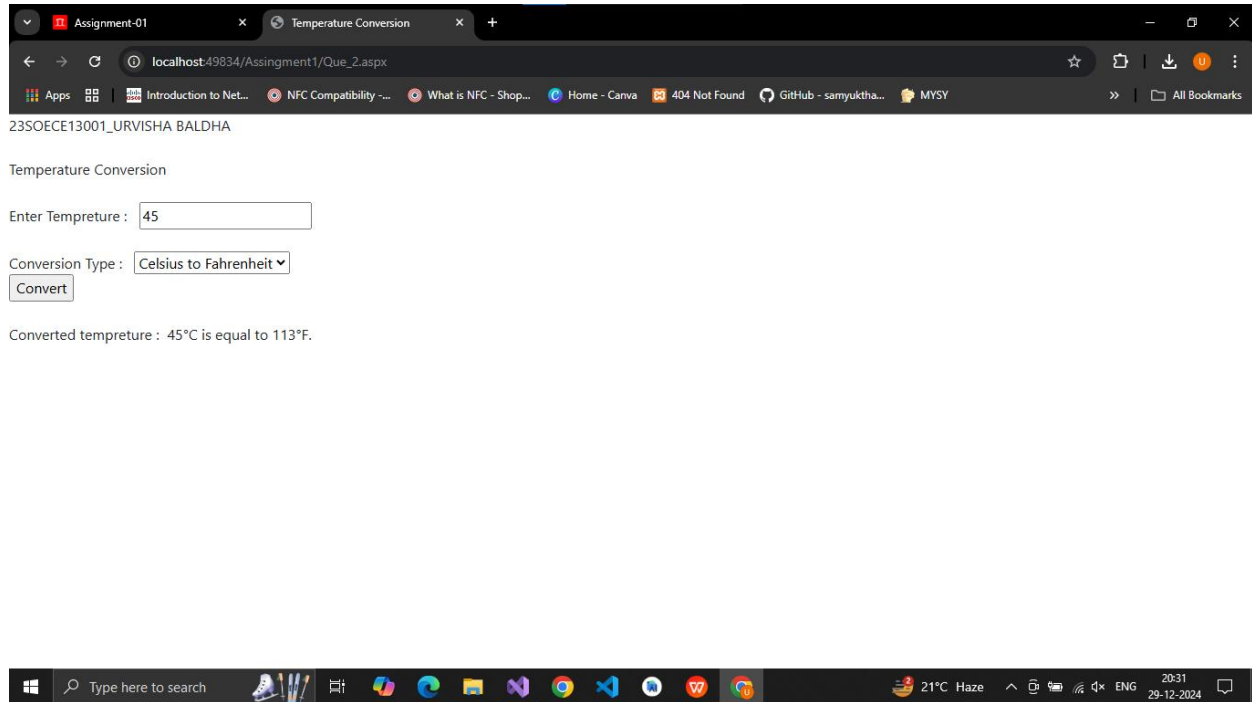
Output Screenshot:

3. Create a component that receives two numbers from the user through a Web Form, and based on the user's selection it performs algebraic operations on the two numbers and returns the result to the Web Form. The result should be displayed in the Web Form.

Que_3.aspx Code

```
<%@        Page        Language="C#"        AutoEventWireup="true"        CodeBehind="Que_3.aspx.cs"
Inherits="AssingmentsWeb.Assingment1.Que_3" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Algebraic Operations</title>
</head>
<body>
    <form id="form1" runat="server">
        <div style="text-align: center">

            <asp:Label        ID="Label1"        runat="server"        Text="23SOECE13001_URVISHA
BALDHA"></asp:Label>
```

```
        <br />
        <br />
        <asp:Label ID="Label2" runat="server" Text="Perform Algebraic Operations"></asp:Label>
        <br />
        <br />
        <asp:Label ID="Label3" runat="server" Text="Enter first number :"></asp:Label>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <br />
        <br />
        <asp:Label ID="Label4" runat="server" Text="Enter second number :"></asp:Label>
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
        <br />
        <br />
        <asp:Label ID="lblOperation" runat="server" Text="Select operation :"></asp:Label>
 <asp:DropDownList ID="ddlOperation" runat="server" AutoPostBack="True">
            <asp:ListItem Value="Add">Addition</asp:ListItem>
            <asp:ListItem Value="Multiply">Multiplication</asp:ListItem>
            <asp:ListItem Value="Subtract">Substraction</asp:ListItem>
            <asp:ListItem Value="Divide">Division</asp:ListItem>
        </asp:DropDownList>
        <br />
        <br />
        <asp:Button ID="btnCalculate" runat="server" OnClick="Button1_Click" Text="Calculate" />
        <br />
        <br />
        <asp:Label ID="lblResult" runat="server" ForeColor="Black">></asp:Label>

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

Que_3.aspx.cs Code

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

namespace AssingmentsWeb.Assingment1
{
  public partial class Que_3 : System.Web.UI.Page
  {
    protected void Page_Load(object sender, EventArgs e)
    {
```

```csharp
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            try
            {
                double number1 = double.Parse(TextBox1.Text);
                double number2 = double.Parse(TextBox2.Text);
                string operation = ddlOperation.SelectedValue;
                double result = 0;

                switch (operation)
                {
                    case "Add":
                        result = number1 + number2;
                        break;
                    case "Subtract":
                        result = number1 - number2;
                        break;
                    case "Multiply":
                        result = number1 * number2;
                        break;
                    case "Divide":
                        if (number2 != 0)
                        {
                            result = number1 / number2;
                        }
                        else
                        {
                            lblResult.Text = "Error: Division by zero is not allowed.";
                            return;
                        }
                        break;
                }

                lblResult.Text = $"The result is: {result}";
            }
            catch (FormatException)
            {
                lblResult.Text = "Error: Please enter valid numbers.";
            }
        }
    }
}
```
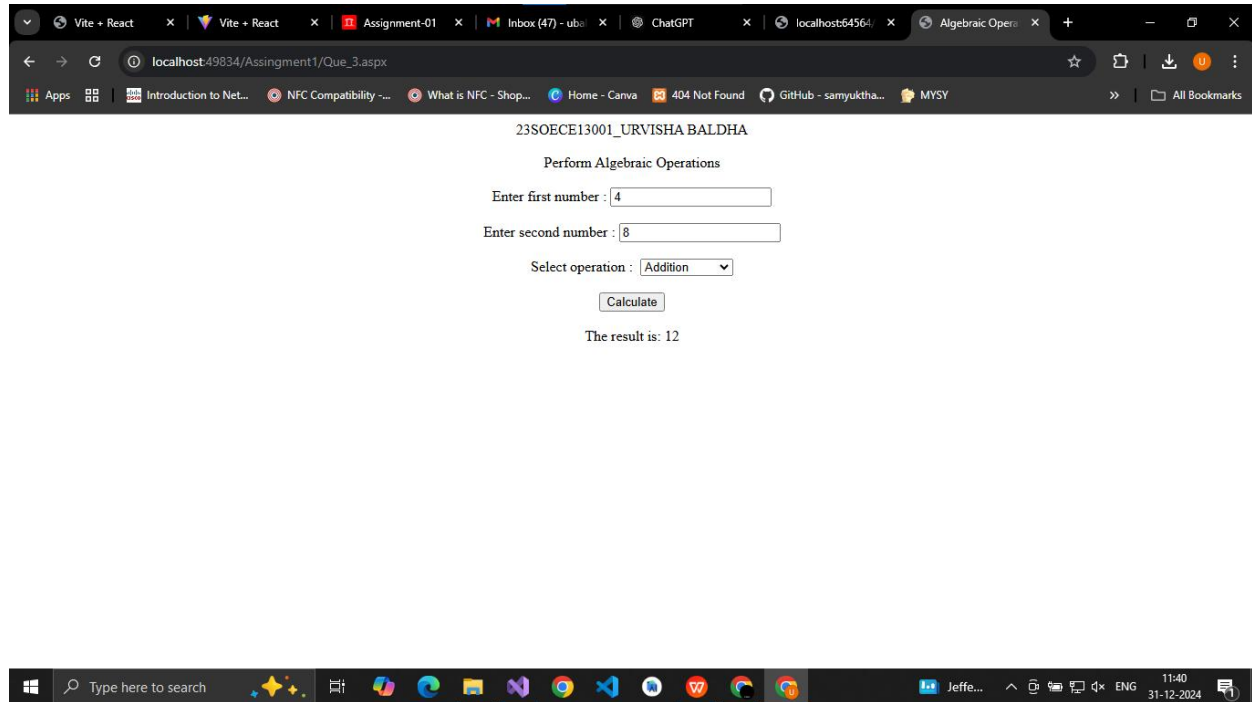
Output Screenshot:

4. Create ASP.NET page to demonstrate "AutoPostBack" property for controls available.

Que_4.aspx Code

```
<%@        Page        Language="C#"        AutoEventWireup="true"        CodeBehind="Que_4.aspx.cs"
Inherits="AssingmentsWeb.Assingment1.Que_4" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label       ID="Label1"       runat="server"       Text="23SOECE13001_URVISHA
BALDHA"></asp:Label>
            <br />
            <br />
            <asp:Label       ID="Label2"       runat="server"       Text="Demonstrating       AutoPostBack
Property"></asp:Label>
```

```
                <br />
                <br />
                <asp:Label ID="lblInstruction" runat="server" Text="Select a color:"></asp:Label>
                <br />
                <br />
                <asp:DropDownList          ID="ddlColors"          runat="server"          AutoPostBack="True"
        OnSelectedIndexChanged="ddlColors_SelectedIndexChanged">
                    <asp:ListItem Value="">Select Color</asp:ListItem>
                    <asp:ListItem Value="Red">Red</asp:ListItem>
                    <asp:ListItem Value="Green">Green</asp:ListItem>
                    <asp:ListItem Value="Blue">Blue</asp:ListItem>
                    <asp:ListItem Value="Yellow">Yellow</asp:ListItem>
                </asp:DropDownList>
                <br />
                <br />
                <asp:Label ID="lblResult" runat="server"></asp:Label>
            </div>
        </form>
    </body>
    </html>
```

Que_4.aspx.cs Code

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

namespace AssingmentsWeb.Assingment1
{
    public partial class Que_4 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void ddlColors_SelectedIndexChanged(object sender, EventArgs e)
        {
            string selectedColor = ddlColors.SelectedValue;
            if (!string.IsNullOrEmpty(selectedColor))
            {
                lblResult.Text = $"You selected: {selectedColor}";
                lblResult.ForeColor = System.Drawing.Color.FromName(selectedColor);
            }
            else
```

```
                {
                    lblResult.Text = "Please select a valid color.";
                    lblResult.ForeColor = System.Drawing.Color.Black;
                }
            }
        }
    }
```

<u>Output Screenshot:</u>