Practical: 6

## Aim : Create a Simple Calculator with Validation and Details

Calculator.aspx

<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Calculator.aspx.vb" Inherits="Practical\_06.Calculator" %>

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

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

<head runat="server">

<title></title>

</head>

<body>

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

<div>

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

<asp:RequiredFieldValidator ID="rfvA" runat="server" ControlToValidate="tbA" ErrorMessage="Enter A" ForeColor="Red" />

<asp:RangeValidator ID="rnvA" runat="server" ControlToValidate="tbA" ErrorMessage="Invalid Value" Type="Double" MinimumValue="0.0" MaximumValue="65536.0" ForeColor="Red" />

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

<asp:RequiredFieldValidator ID="rfvB" runat="server" ControlToValidate="tbB" ErrorMessage="Enter B" ForeColor="Red" />

<asp:RangeValidator ID="rnvB" runat="server" ControlToValidate="tbB" ErrorMessage="Invalid Value" Type="Double" MinimumValue="0.0" MaximumValue="65536.0" ForeColor="Red" />

<asp:DropDownList ID="drpOp" runat="server">

<asp:ListItem>+</asp:ListItem>

<asp:ListItem>-</asp:ListItem>

<asp:ListItem>\*</asp:ListItem>

<asp:ListItem>/</asp:ListItem>

<asp:ListItem>%</asp:ListItem>

</asp:DropDownList>

<asp:Button ID="btnCalculate" runat="server" Text="Calculate" />

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

</div>

</form>

</body>

</html>

Calculator.aspx.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 btnCalculate\_Click(ByVal sender As Object, ByVal e As EventArgs) Handles btnCalculate.Click

If CInt(tbB.Text) = 0 Then

Response.Write("Cannot Divided by 0")

ElseIf drpOp.Text = "+" Then

lblAnswer.Text = CDbl(tbA.Text) + CDbl(tbB.Text)

ElseIf drpOp.Text = "-" Then

lblAnswer.Text = CDbl(tbA.Text) - CDbl(tbB.Text)

ElseIf drpOp.Text = "\*" Then

lblAnswer.Text = CDbl(tbA.Text) \* CDbl(tbB.Text)

ElseIf drpOp.Text = "/" Then

lblAnswer.Text = CDbl(tbA.Text) / CDbl(tbB.Text)

ElseIf drpOp.Text = "%" Then

lblAnswer.Text = CDbl(tbA.Text) Mod CDbl(tbB.Text)

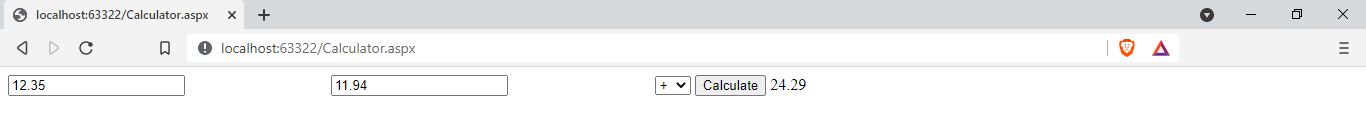
End If

End Sub

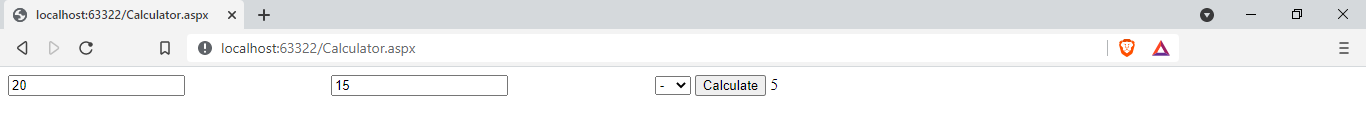
End Class

Output :

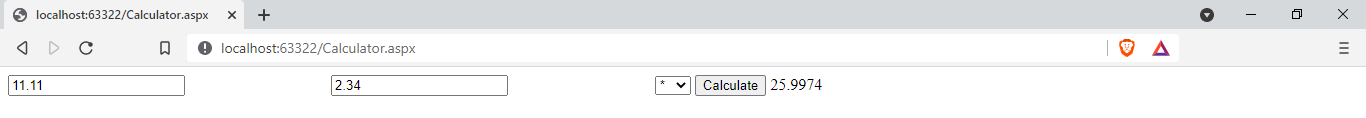
Addition:



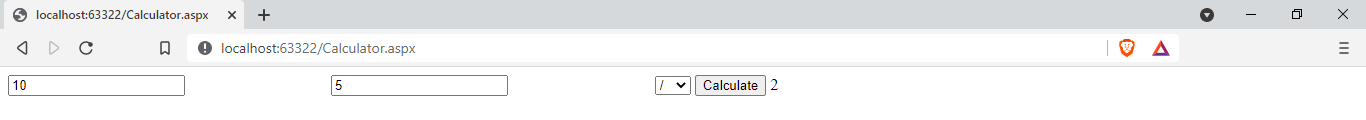
Subtraction:



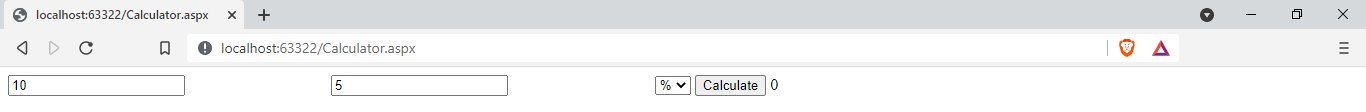
Multiplication:



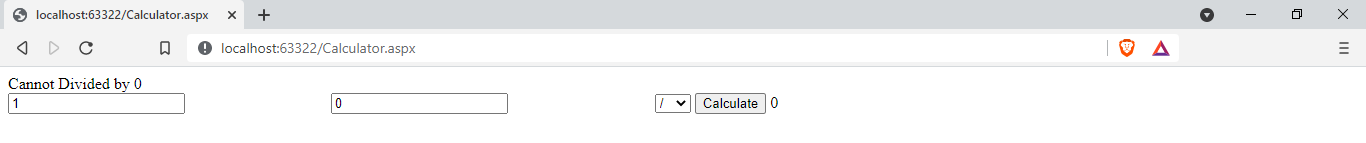
Division:

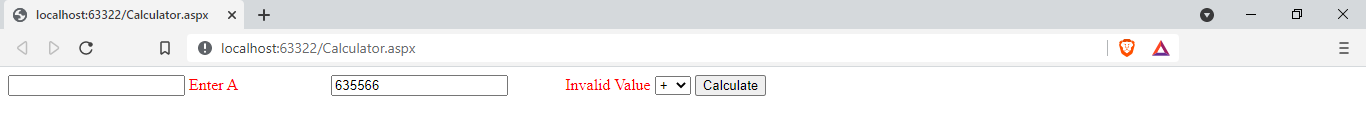


Modulo:



Errors :





|  |  |  |  |
| --- | --- | --- | --- |
| Start Date | End/Sign Date | Faculty Sign | Remarks/Grade |
|  |  |  |  |