# Experiment – 3

**Aim:** Implement the calculator with the help of the Command argument and command name properties of the button control.

#### **Procedure:**

- Create GUI in which user has the facility enter two number and facility to perform the Addition, subtraction, multiplication and division operation
- The Division Operation Should not suffers from the Divide by zero error.

#### Code:

#### Calculator.aspx:

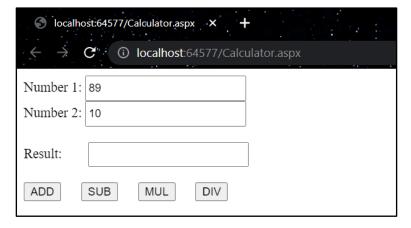
```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Calculator.aspx.cs"</p>
Inherits="Calculator" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div style="height: 254px; width: 426px">
       <asp:Label ID="Label1" runat="server" Text="Number 1: "></asp:Label>
       <asp:TextBox ID="TextBox1" runat="server" Height="24px" Width="183px"></asp:TextBox>
      <asp:Label ID="Label2" runat="server" Text="Number 2: "></asp:Label>
       <asp:TextBox ID="TextBox2" runat="server" Height="24px" Width="183px"></asp:TextBox>
       <br />
      <br />
      <asp:Label ID="Label3" runat="server" Text="Result: "></asp:Label>
       <asp:TextBox ID="Result" runat="server" Height="24px" Width="182px" style="margin-top:
Opx; margin-left: 27px;"></asp:TextBox>
       <br />
       <asp:Button ID="Button1" runat="server" CommandName="Add" OnCommand="calculate"
Text="ADD" style="margin-right:20px;"/>
       <asp:Button ID="Button2" runat="server" CommandName="Sub" OnCommand="calculate"
Text="SUB" style="margin-right:20px;" />
       <asp:Button ID="Button3" runat="server" CommandName="Mul" OnCommand="calculate"
Text="MUL" style="margin-right:20px;"/>
       <asp:Button ID="Button4" runat="server" CommandName="Div" OnCommand="calculate"
Text="DIV" />
    </div>
  </form>
</body>
```

#### Calculator.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class Calculator : System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
  protected void calculate(object sender, CommandEventArgs e)
    if (e.CommandName.ToString() == "Add")
       Result.Text = Convert.ToString(Convert.ToInt32(TextBox1.Text) +
Convert.ToInt32(TextBox2.Text));
    else if (e.CommandName.ToString() == "Sub")
       Result.Text = Convert.ToString(Convert.ToInt32(TextBox1.Text) -
Convert.ToInt32(TextBox2.Text));
    else if (e.CommandName.ToString() == "Mul")
       Result.Text = Convert.ToString(Convert.ToInt32(TextBox1.Text) *
Convert.ToInt32(TextBox2.Text));
    else if (e.CommandName.ToString() == "Div")
       int number1 = Convert.ToInt32(TextBox1.Text);
       int number2 = Convert.ToInt32(TextBox2.Text);
       if (number2 == 0)
         Result.Text = "Error: DivideByZero";
       }
       else
         Result.Text = Convert.ToString(number1 / number2);
    }
  }
```

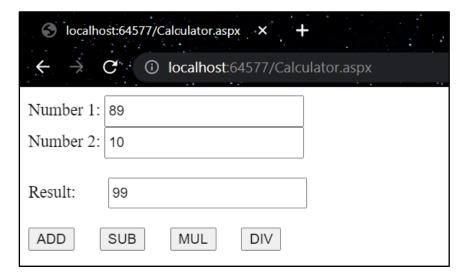
### **Output Screenshots:**

## Input:

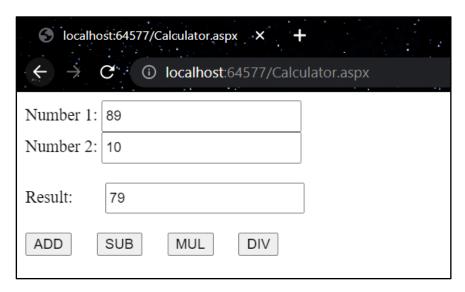


# **Output:**

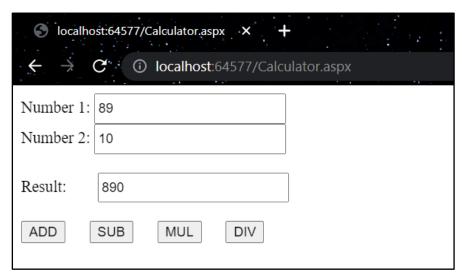
### Addition-



### **Subtraction-**



# Multiplication-



### Division-

