Assignment no 2

Name: Mohsin Jameel

Arid no: 22-Arid-811

Class: BSCS-4B

Question

1. Write a C# windows application like windows calculator.
Program:

```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Calculator
{
    public partial class Form1 : Form
    {
        Double resultValue = 0;
        String operationPerformed = "";
        bool isOperationPerformed = false;
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {

        }

        private void button15_Click(object sender, EventArgs e)
        {
```

```csharp
        }

        private void click_button(object sender, EventArgs e)
        {
            if ((textBox_Result.Text == "0") || (isOperationPerformed) )
                textBox_Result.Clear();
            Button button = (Button)sender;
            if(button.Text == ".")
            {
                if(!textBox_Result.Text.Contains("."))
                    textBox_Result.Text = textBox_Result.Text + button.Text;
            }
            else
            {
                textBox_Result.Text = textBox_Result.Text + button.Text;
            }

            isOperationPerformed = false;
        }

        private void operator_click(object sender, EventArgs e)
        {
            Button button = (Button)sender;
            if(resultValue != 0)
            {
                button16.PerformClick();
                operationPerformed = button.Text;
                labelCurrentOperation.Text = resultValue + " " + operationPerformed;
                isOperationPerformed = true;
            }
            else
            {
                operationPerformed = button.Text;
                resultValue = Double.Parse(textBox_Result.Text);
                labelCurrentOperation.Text = resultValue + " " + operationPerformed;
                isOperationPerformed = true;
            }

        }

        private void button11_Click(object sender, EventArgs e)
        {
            textBox_Result.Text = "0";
        }
```

```
private void button6_Click(object sender, EventArgs e)
{
    textBox_Result.Text = "0";
    resultValue = 0;
}

private void button16_Click(object sender, EventArgs e)
{
    switch(operationPerformed)
    {
        case "+":
            textBox_Result.Text = (resultValue +
Double.Parse(textBox_Result.Text)).ToString();
            break;
        case "-":
            textBox_Result.Text = (resultValue -
Double.Parse(textBox_Result.Text)).ToString();
            break;
        case "*":
            textBox_Result.Text = (resultValue *
Double.Parse(textBox_Result.Text)).ToString();
            break;
        case "/":
            textBox_Result.Text = (resultValue /
Double.Parse(textBox_Result.Text)).ToString();
            break;
        default:
            break;


    }
    resultValue = Double.Parse(textBox_Result.Text);
    labelCurrentOperation.Text = "";
}
}
}
```

Output:

Calculator

10 *

					5

7	8	9	/	CE
4	5	6	*	C
1	2	3	-	=
0		.	+	

Calculator

					50

7	8	9	/	CE
4	5	6	*	C
1	2	3	-	=
0		.	+	