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Reg #: SP20-BCS-044

## **Graded Task**

## Task 1 (Calculator)

```
Œ Calculator1
                                           ▼ $\text{Operator_Pressed(object sender, EventA
              □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;
using static System.Windows.Forms.VisualStyles.VisualStyleElement;
              ⊟namespace Calculator1
                        private double accumulator = 0;
                        private char lastOperation;
                            InitializeComponent();
                        private void Form1_Load(object sender, EventArgs e)
                        private void button1_Click(object sender, EventArgs e)
        30
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                            Operator_Pressed(sender,e);
```

```
Œ Calculator1
                                                        ▼ 48 Calculator 1. Form 1
                                                                                                                     ▼ Sa Operator_Pressed(object sender, Every pressed)
                               private void Operator_Pressed(object sender, EventArgs e)
                                    // An operator was pressed; perform the last operation and store the new operator.
char operation = (sender as System.Windows.Forms.Button).Text[0];
                                     if (operation == 'C')
                                          accumulator = 0;
                                    else
                                          double currentValue = double.Parse(text.Text);
switch (lastOperation)
                                                case '+': accumulator += currentValue; break;
                                                case '-': accumulator -= currentValue; break;
                                                case 'x': accumulator *= currentValue; break;
case '/|: accumulator /= currentValue; break;
                                                default: accumulator = currentValue; break;
                                    lastOperation = operation; text.Text = operation == '=' ? accumulator.ToString() : "0";
                               private void Number_Pressed(object sender, EventArgs e)
                                    // Add it to the display.
string number = (sender as System.Windows.Forms.Button).Text;
text.Text = text.Text == "0" ? number : text.Text + number;
```

```
C# Calculator1
                                        ▼ 😘 Calculator 1. Form 1
                                                                                    ▼ Pa Operator_Pressed(obje
                      private void Number_Pressed(object sender, EventArgs e)
                          string number = (sender as System.Windows.Forms.Button).Text;
                          text.Text = text.Text == "0" ? number : text.Text + number;
                      private void button7_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void num7_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void num1_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void num2_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void button8_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
```

```
C# Calculator1
                                         ▼ 🕰 Calculator 1. Form 1
                                                                                    ▼ 😪 Operator_Pressed(object sender, E
                      private void num8_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void numDec_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void num9_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void num6_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void num3_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void equal_Click(object sender, EventArgs e)
                          Operator_Pressed(sender, e);
                      private void addButton_Click(object sender, EventArgs e)
                          Operator_Pressed(sender, e);
```

```
→ 😪 Calculator 1. Form 1
Œ Calculator1
                                                                                   ▼ 😭 Operator_Pres
                      private void subButton_Click(object sender, EventArgs e)
                          Operator_Pressed(sender, e);
                      private void mulButton_Click(object sender, EventArgs e)
                          Operator_Pressed(sender, e);
                      private void divButton_Click(object sender, EventArgs e)
                          Operator_Pressed(sender, e);
                      private void button5_Click(object sender, EventArgs e)
                          Number_Pressed(sender, e);
                      private void sine_Click(object sender, EventArgs e)
                          double currentValue = double.Parse(text.Text);
                          double ans = Math.Sin(currentValue);
                          text.Text = ans.ToString();
                      private void cosine_Click(object sender, EventArgs e)
                          double currentValue = double.Parse(text.Text);
                          double ans = Math.Cos(currentValue);
                          text.Text = ans.ToString();
```

```
private void tangent_Click(object sender, EventArgs e)

{

double currentValue = double.Parse(text.Text);

double ans = Math.Tan(currentValue);

text.Text = ans.ToString();

}

private void log_Click(object sender, EventArgs e)

{

double currentValue = double.Parse(text.Text);

double ans = Math.Log10(currentValue);

text.Text = ans.ToString();

}

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text.Text = ans.ToString();

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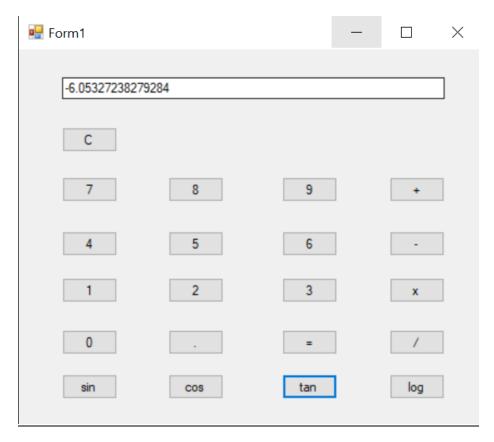
173

}

174

}
```

**Output:** 



Task 2 (Dynamic Grid)

```
© dataGrid
                                        ▼ % dataGrid.Form1
                                                                                    ▼ 😭 button1_Click(ol
             ⊡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 dataGrid
            |{
□|
                  public partial class Form1 : Form
 몸↑
                      public Form1()
                          InitializeComponent();
                      private void Form1_Load(object sender, EventArgs e)
                      private void button1_Click(object sender, EventArgs e)
```

```
private void button1_Click(object sender, EventArgs e)

{

dataGridView1.ColumnCount = 3;

dataGridView1.Columns[0].Name = "Product ID";

dataGridView1.Columns[1].Name = "Product Name";

dataGridView1.Columns[2].Name = "Product Price";

string[] row = new string[]

id.Text,name.Text, price.Text};

dataGridView1.Rows.Add(row);

}
```

## **Output:**



	Product ID	Product Name	Product Price
•	1	milk	500
	2	chocolate	200
	3	Juice	300

Product ID

Product Name

Juice

Product Price

300

View Grid