Name: Roland Zeta Regio **Date:** July 5, 2023

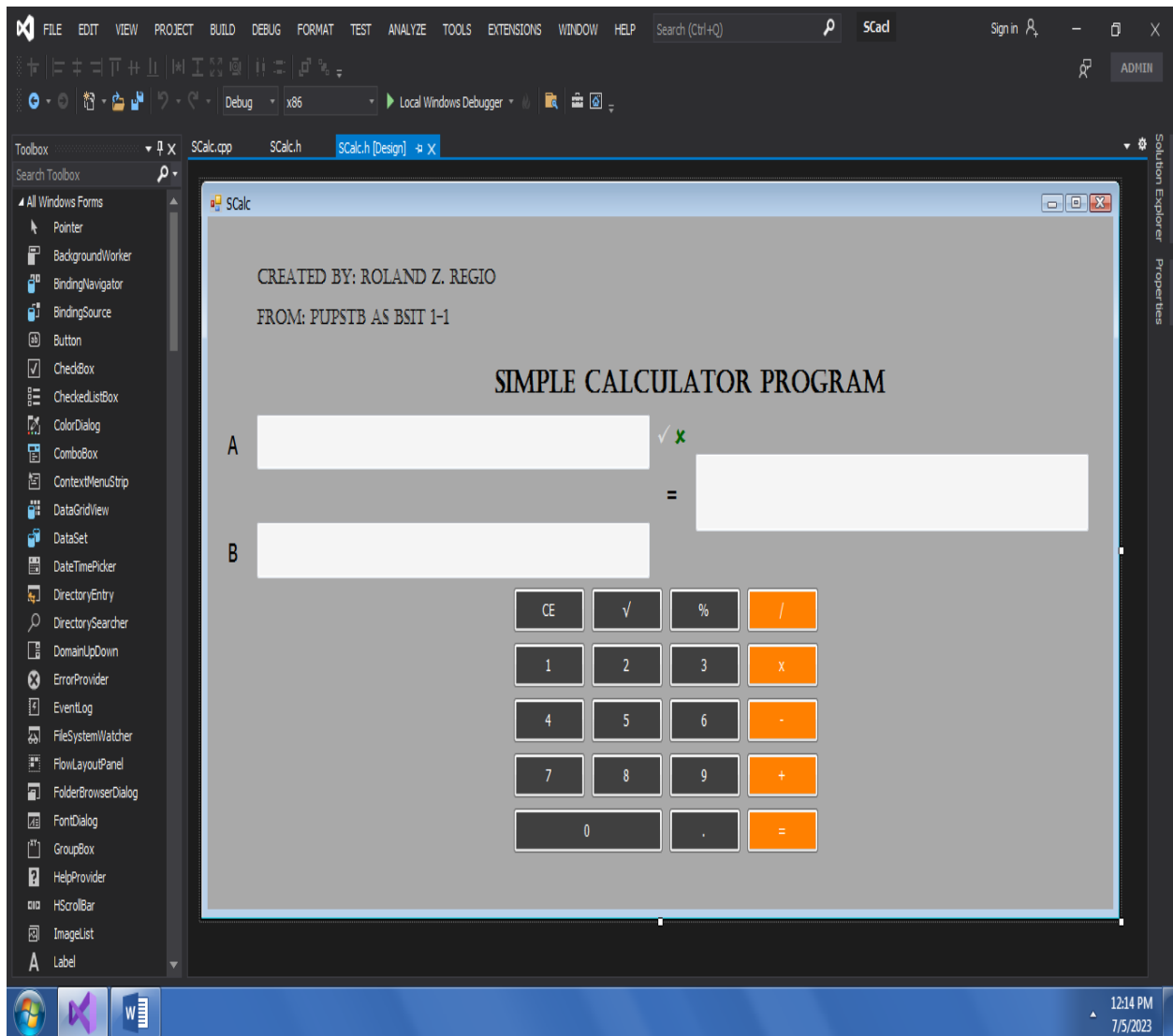**Course & Section:** BSIT 1-1 **Professor:** Ma'am Marienel Velasco

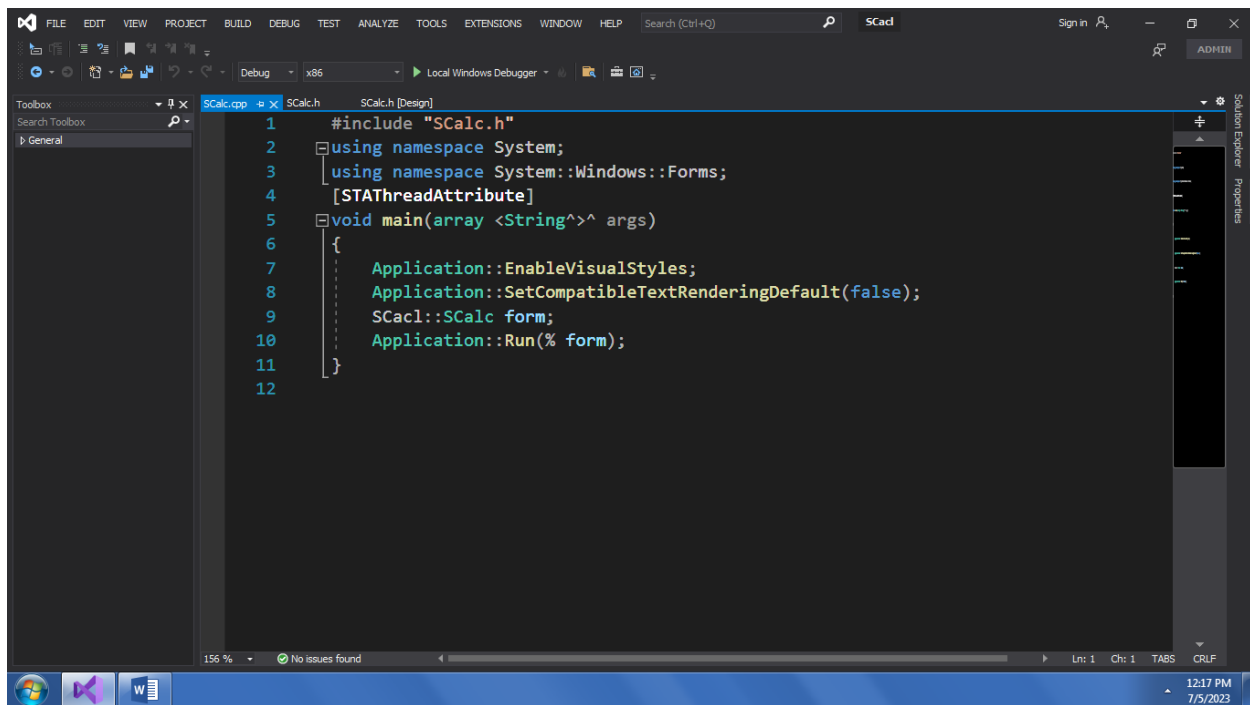# COMPUTER PROGRAMMING 2

Activity#4: Simple Calculator (CODES & OUTPUT)
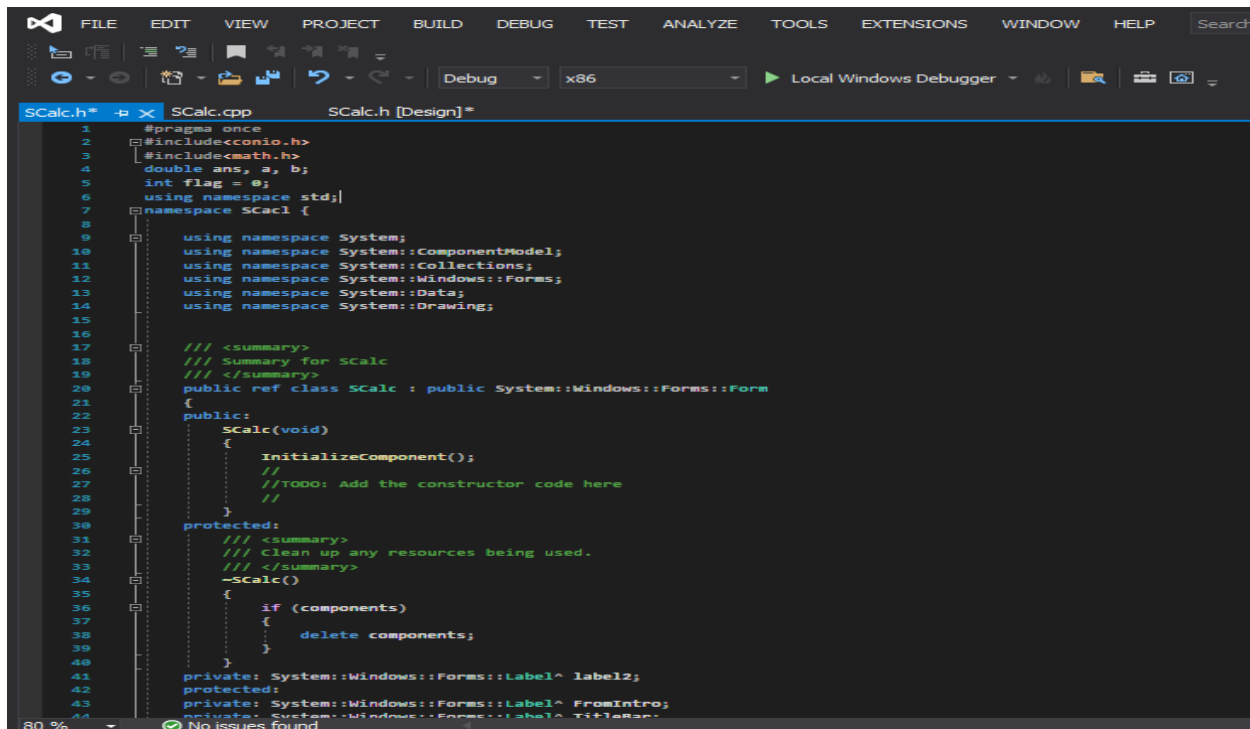
PROGRAM CODES

Program Design

Program CPP Codes
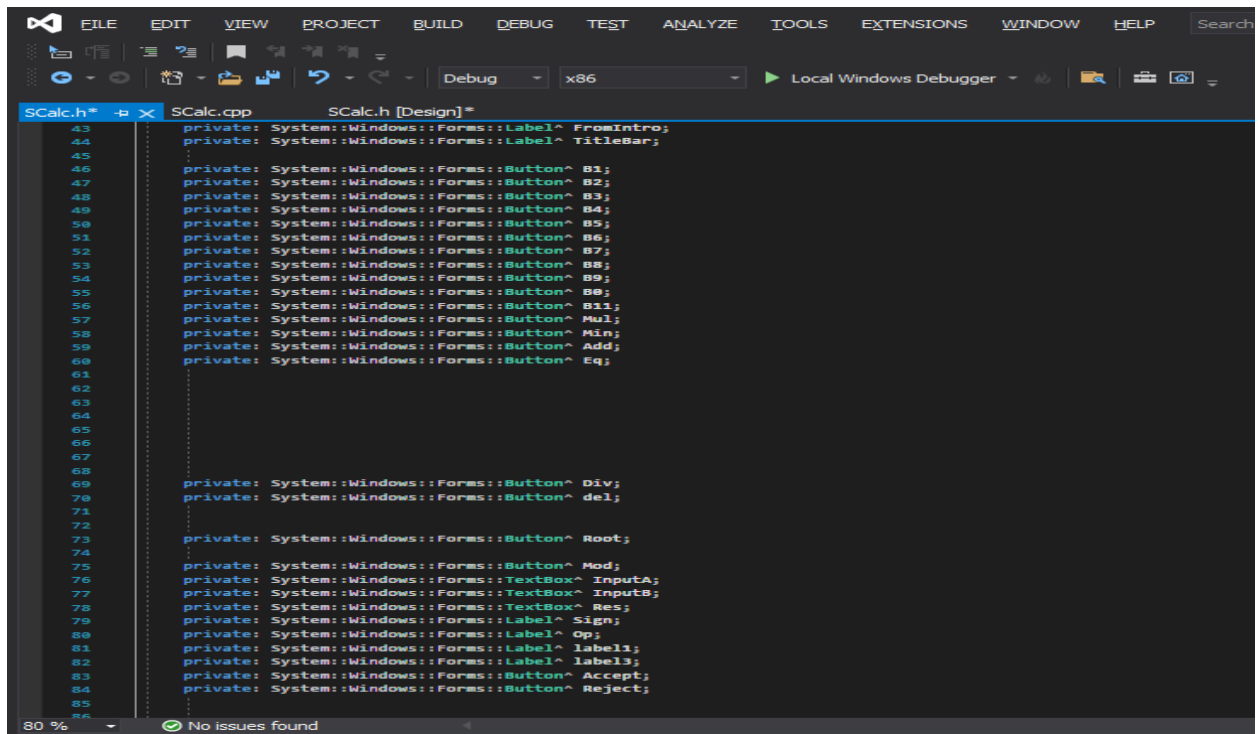


```cpp
#include "SCalc.h"
using namespace System;
using namespace System::Windows::Forms;
[STAThreadAttribute]
void main(array <String^>^ args)
{
    Application::EnableVisualStyles;
    Application::SetCompatibleTextRenderingDefault(false);
    SCacl::SCalc form;
    Application::Run(% form);
}
```

Program Header Codes
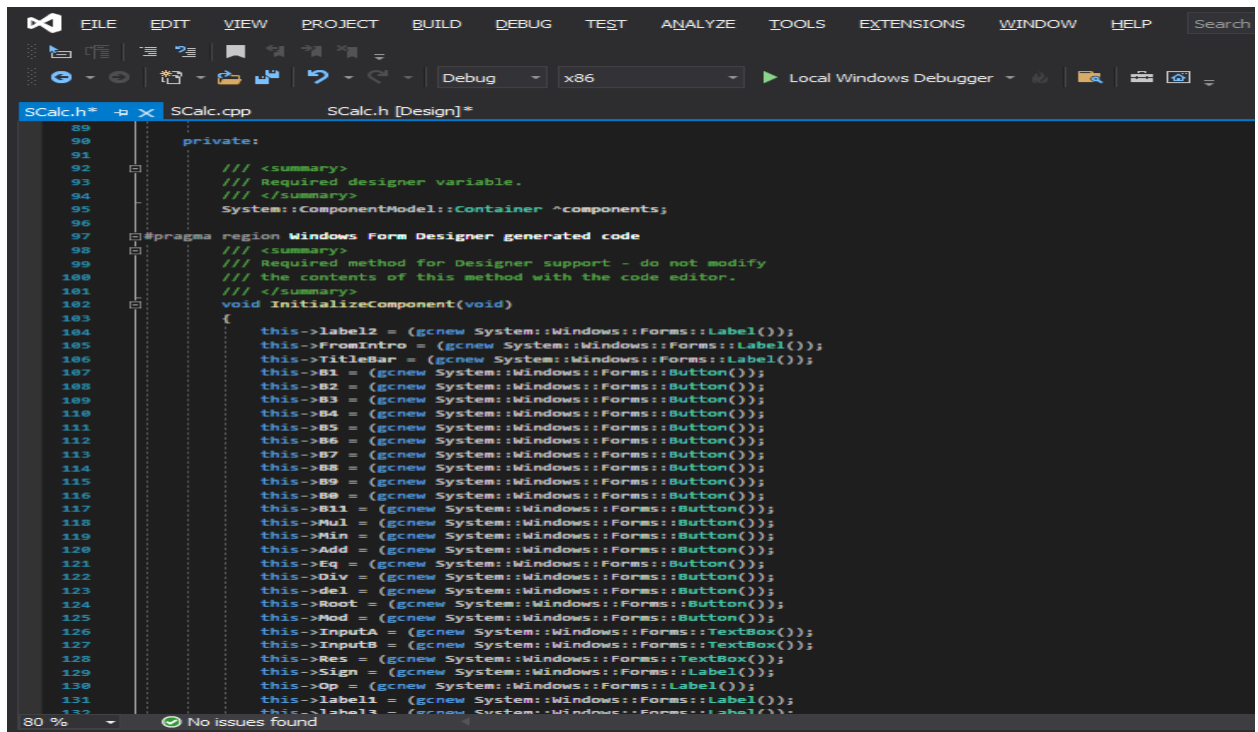

```cpp
#pragma once
#include<conio.h>
#include<math.h>
double ans, a, b;
int flag = 0;
using namespace std;
namespace SCacl {

    using namespace System;
    using namespace System::ComponentModel;
    using namespace System::Collections;
    using namespace System::Windows::Forms;
    using namespace System::Data;
    using namespace System::Drawing;


    /// <summary>
    /// Summary for SCalc
    /// </summary>
    public ref class SCalc : public System::Windows::Forms::Form
    {
    public:
        SCalc(void)
        {
            InitializeComponent();
            //
            //TODO: Add the constructor code here
            //
        }
    protected:
        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        ~SCalc()
        {
            if (components)
            {
                delete components;
            }
        }
    private: System::Windows::Forms::Label^ label2;
    protected:
    private: System::Windows::Forms::Label^ FromIntro;
    private: System::Windows::Forms::Label^ TitleBar;
```

```
43          private: System::Windows::Forms::Label^ FromIntro;
44          private: System::Windows::Forms::Label^ TitleBar;
45
46          private: System::Windows::Forms::Button^ B1;
47          private: System::Windows::Forms::Button^ B2;
48          private: System::Windows::Forms::Button^ B3;
49          private: System::Windows::Forms::Button^ B4;
50          private: System::Windows::Forms::Button^ B5;
51          private: System::Windows::Forms::Button^ B6;
52          private: System::Windows::Forms::Button^ B7;
53          private: System::Windows::Forms::Button^ B8;
54          private: System::Windows::Forms::Button^ B9;
55          private: System::Windows::Forms::Button^ B0;
56          private: System::Windows::Forms::Button^ B11;
57          private: System::Windows::Forms::Button^ Mul;
58          private: System::Windows::Forms::Button^ Min;
59          private: System::Windows::Forms::Button^ Add;
60          private: System::Windows::Forms::Button^ Eq;
61
62
63
64
65
66
67
68
69          private: System::Windows::Forms::Button^ Div;
70          private: System::Windows::Forms::Button^ del;
71
72
73          private: System::Windows::Forms::Button^ Root;
74
75          private: System::Windows::Forms::Button^ Mod;
76          private: System::Windows::Forms::TextBox^ InputA;
77          private: System::Windows::Forms::TextBox^ InputB;
78          private: System::Windows::Forms::TextBox^ Res;
79          private: System::Windows::Forms::Label^ Sign;
80          private: System::Windows::Forms::Label^ Op;
81          private: System::Windows::Forms::Label^ label1;
82          private: System::Windows::Forms::Label^ label3;
83          private: System::Windows::Forms::Button^ Accept;
84          private: System::Windows::Forms::Button^ Reject;
85
```

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```
89
90          private:
91
92          /// <summary>
93          /// Required designer variable.
94          /// </summary>
95          System::ComponentModel::Container ^components;
96
97      #pragma region Windows Form Designer generated code
98          /// <summary>
99          /// Required method for Designer support - do not modify
100         /// the contents of this method with the code editor.
101         /// </summary>
102         void InitializeComponent(void)
103         {
104             this->label2 = (gcnew System::Windows::Forms::Label());
105             this->FromIntro = (gcnew System::Windows::Forms::Label());
106             this->TitleBar = (gcnew System::Windows::Forms::Label());
107             this->B1 = (gcnew System::Windows::Forms::Button());
108             this->B2 = (gcnew System::Windows::Forms::Button());
109             this->B3 = (gcnew System::Windows::Forms::Button());
110             this->B4 = (gcnew System::Windows::Forms::Button());
111             this->B5 = (gcnew System::Windows::Forms::Button());
112             this->B6 = (gcnew System::Windows::Forms::Button());
113             this->B7 = (gcnew System::Windows::Forms::Button());
114             this->B8 = (gcnew System::Windows::Forms::Button());
115             this->B9 = (gcnew System::Windows::Forms::Button());
116             this->B0 = (gcnew System::Windows::Forms::Button());
117             this->B11 = (gcnew System::Windows::Forms::Button());
118             this->Mul = (gcnew System::Windows::Forms::Button());
119             this->Min = (gcnew System::Windows::Forms::Button());
120             this->Add = (gcnew System::Windows::Forms::Button());
121             this->Eq = (gcnew System::Windows::Forms::Button());
122             this->Div = (gcnew System::Windows::Forms::Button());
123             this->del = (gcnew System::Windows::Forms::Button());
124             this->Root = (gcnew System::Windows::Forms::Button());
125             this->Mod = (gcnew System::Windows::Forms::Button());
126             this->InputA = (gcnew System::Windows::Forms::TextBox());
127             this->InputB = (gcnew System::Windows::Forms::TextBox());
128             this->Res = (gcnew System::Windows::Forms::TextBox());
129             this->Sign = (gcnew System::Windows::Forms::Label());
130             this->Op = (gcnew System::Windows::Forms::Label());
131             this->label1 = (gcnew System::Windows::Forms::Label());
132             this->label3 = (gcnew System::Windows::Forms::Label());
```

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```cpp
131            this->label1 = (gcnew System::Windows::Forms::Label());
132            this->label3 = (gcnew System::Windows::Forms::Label());
133            this->Accept = (gcnew System::Windows::Forms::Button());
134            this->Reject = (gcnew System::Windows::Forms::Button());
135            this->SuspendLayout();
136            //
137            // label2
138            //
139            this->label2->Anchor = static_cast<System::Windows::Forms::AnchorStyles>(((System::Windows::Forms::AnchorStyles::Top | System::Windows::Forms::AnchorStyles::Left)
140                | System::Windows::Forms::AnchorStyles::Right));
141            this->label2->AutoSize = true;
142            this->label2->BackColor = System::Drawing::Color::Transparent;
143            this->label2->FlatStyle = System::Windows::Forms::FlatStyle::Flat;
144            this->label2->Font = (gcnew System::Drawing::Font(L"Castellar", 12, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
145                static_cast<System::Byte>(0)));
146            this->label2->Location = System::Drawing::Point(54, 35);
147            this->label2->Name = L"label2";
148            this->label2->Size = System::Drawing::Size(288, 19);
149            this->label2->TabIndex = 53;
150            this->label2->Text = L"CREATED BY: ROLAND Z. REGIO";
151            //
152            // FromIntro
153            //
154            this->FromIntro->Anchor = static_cast<System::Windows::Forms::AnchorStyles>(((System::Windows::Forms::AnchorStyles::Top | System::Windows::Forms::AnchorStyles::Left)
155                | System::Windows::Forms::AnchorStyles::Right));
156            this->FromIntro->AutoSize = true;
157            this->FromIntro->BackColor = System::Drawing::Color::Transparent;
158            this->FromIntro->FlatStyle = System::Windows::Forms::FlatStyle::Flat;
159            this->FromIntro->Font = (gcnew System::Drawing::Font(L"Castellar", 12, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
160                static_cast<System::Byte>(0)));
161            this->FromIntro->ForeColor = System::Drawing::SystemColors::Desktop;
162            this->FromIntro->Location = System::Drawing::Point(54, 65);
163            this->FromIntro->Name = L"FromIntro";
164            this->FromIntro->Size = System::Drawing::Size(233, 19);
165            this->FromIntro->TabIndex = 52;
166            this->FromIntro->Text = L"From: PUPSTB as BSIT 1-1";
167            //
168            // TitleBar
169            //
170            this->TitleBar->Anchor = static_cast<System::Windows::Forms::AnchorStyles>(((System::Windows::Forms::AnchorStyles::Top | System::Windows::Forms::AnchorStyles::Left)
171                | System::Windows::Forms::AnchorStyles::Right));
172            this->TitleBar->BackColor = System::Drawing::Color::Transparent;
173            this->TitleBar->FlatStyle = System::Windows::Forms::FlatStyle::Flat;
174            this->TitleBar->Font = (gcnew System::Drawing::Font(L"Castellar", 18, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,
```

```cpp
174            this->TitleBar->Font = (gcnew System::Drawing::Font(L"Castellar", 18, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,
175                static_cast<System::Byte>(0)));
176            this->TitleBar->Location = System::Drawing::Point(100, 103);
177            this->TitleBar->Name = L"TitleBar";
178            this->TitleBar->Size = System::Drawing::Size(930, 41);
179            this->TitleBar->TabIndex = 56;
180            this->TitleBar->Text = L"SIMPLE CALCULATOR PROGRAM";
181            this->TitleBar->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;
182            //
183            // B1
184            //
185            this->B1->Anchor = System::Windows::Forms::AnchorStyles::None;
186            this->B1->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
187                static_cast<System::Int32>(static_cast<System::Byte>(64)));
188            this->B1->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
189                static_cast<System::Byte>(0)));
190            this->B1->ForeColor = System::Drawing::Color::White;
191            this->B1->Location = System::Drawing::Point(357, 316);
192            this->B1->Name = L"B1";
193            this->B1->Size = System::Drawing::Size(85, 35);
194            this->B1->TabIndex = 57;
195            this->B1->Text = L"1";
196            this->B1->UseVisualStyleBackColor = false;
197            this->B1->Click += gcnew System::EventHandler(this, &SCalc::B1_Click);
198            //
199            // B2
200            //
201            this->B2->Anchor = System::Windows::Forms::AnchorStyles::None;
202            this->B2->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
203                static_cast<System::Int32>(static_cast<System::Byte>(64)));
204            this->B2->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
205                static_cast<System::Byte>(0)));
206            this->B2->ForeColor = System::Drawing::Color::White;
207            this->B2->Location = System::Drawing::Point(448, 316);
208            this->B2->Name = L"B2";
209            this->B2->Size = System::Drawing::Size(85, 35);
210            this->B2->TabIndex = 58;
211            this->B2->Text = L"2";
212            this->B2->UseVisualStyleBackColor = false;
213            this->B2->Click += gcnew System::EventHandler(this, &SCalc::B2_Click);
214            //
215            // B3
216            //
217            this->B3->Anchor = System::Windows::Forms::AnchorStyles::None;
```

```cpp
217            this->B3->Anchor = System::Windows::Forms::AnchorStyles::None;
218            this->B3->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
219                static_cast<System::Int32>(static_cast<System::Byte>(64)));
220            this->B3->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
221                static_cast<System::Byte>(0)));
222            this->B3->ForeColor = System::Drawing::Color::White;
223            this->B3->Location = System::Drawing::Point(539, 316);
224            this->B3->Name = L"B3";
225            this->B3->Size = System::Drawing::Size(85, 35);
226            this->B3->TabIndex = 59;
227            this->B3->Text = L"3";
228            this->B3->UseVisualStyleBackColor = false;
229            this->B3->Click += gcnew System::EventHandler(this, &SCalc::B3_Click);
230            //
231            // B4
232            //
233            this->B4->Anchor = System::Windows::Forms::AnchorStyles::None;
234            this->B4->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
235                static_cast<System::Int32>(static_cast<System::Byte>(64)));
236            this->B4->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
237                static_cast<System::Byte>(0)));
238            this->B4->ForeColor = System::Drawing::Color::White;
239            this->B4->Location = System::Drawing::Point(357, 357);
240            this->B4->Name = L"B4";
241            this->B4->Size = System::Drawing::Size(85, 35);
242            this->B4->TabIndex = 60;
243            this->B4->Text = L"4";
244            this->B4->UseVisualStyleBackColor = false;
245            this->B4->Click += gcnew System::EventHandler(this, &SCalc::B4_Click);
246            //
247            // B5
248            //
249            this->B5->Anchor = System::Windows::Forms::AnchorStyles::None;
250            this->B5->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
251                static_cast<System::Int32>(static_cast<System::Byte>(64)));
252            this->B5->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
253                static_cast<System::Byte>(0)));
254            this->B5->ForeColor = System::Drawing::Color::White;
255            this->B5->Location = System::Drawing::Point(448, 357);
256            this->B5->Name = L"B5";
257            this->B5->Size = System::Drawing::Size(85, 35);
258            this->B5->TabIndex = 61;
259            this->B5->Text = L"5";
260            this->B5->UseVisualStyleBackColor = false;
```

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```cpp
260            this->B5->UseVisualStyleBackColor = false;
261            this->B5->Click += gcnew System::EventHandler(this, &SCalc::B5_Click);
262            //
263            // B6
264            //
265            this->B6->Anchor = System::Windows::Forms::AnchorStyles::None;
266            this->B6->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
267                static_cast<System::Int32>(static_cast<System::Byte>(64)));
268            this->B6->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
269                static_cast<System::Byte>(0)));
270            this->B6->ForeColor = System::Drawing::Color::White;
271            this->B6->Location = System::Drawing::Point(539, 357);
272            this->B6->Name = L"B6";
273            this->B6->Size = System::Drawing::Size(85, 35);
274            this->B6->TabIndex = 62;
275            this->B6->Text = L"6";
276            this->B6->UseVisualStyleBackColor = false;
277            this->B6->Click += gcnew System::EventHandler(this, &SCalc::B6_Click);
278            //
279            // B7
280            //
281            this->B7->Anchor = System::Windows::Forms::AnchorStyles::None;
282            this->B7->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
283                static_cast<System::Int32>(static_cast<System::Byte>(64)));
284            this->B7->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
285                static_cast<System::Byte>(0)));
286            this->B7->ForeColor = System::Drawing::Color::White;
287            this->B7->Location = System::Drawing::Point(357, 398);
288            this->B7->Name = L"B7";
289            this->B7->Size = System::Drawing::Size(85, 35);
290            this->B7->TabIndex = 63;
291            this->B7->Text = L"7";
292            this->B7->UseVisualStyleBackColor = false;
293            this->B7->Click += gcnew System::EventHandler(this, &SCalc::B7_Click);
294            //
295            // B8
296            //
297            this->B8->Anchor = System::Windows::Forms::AnchorStyles::None;
298            this->B8->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
299                static_cast<System::Int32>(static_cast<System::Byte>(64)));
300            this->B8->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
301                static_cast<System::Byte>(0)));
302            this->B8->ForeColor = System::Drawing::Color::White;
303            this->B8->Location = System::Drawing::Point(448, 398);
```

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```
FILE  EDIT  VIEW  PROJECT  BUILD  DEBUG  TEST  ANALYZE  TOOLS  EXTENSIONS  WINDOW  HELP        Search (Ctrl+Q)                    SCacl

Debug        x86            Local Windows Debugger

SCalc.h*  X   SCalc.cpp        SCalc.h [Design]*
303            this->B8->Location = System::Drawing::Point(448, 398);
304            this->B8->Name = L"B8";
305            this->B8->Size = System::Drawing::Size(85, 35);
306            this->B8->TabIndex = 64;
307            this->B8->Text = L"8";
308            this->B8->UseVisualStyleBackColor = false;
309            this->B8->Click += gcnew System::EventHandler(this, &SCalc::B8_Click);
310            //
311            // B9
312            //
313            this->B9->Anchor = System::Windows::Forms::AnchorStyles::None;
314            this->B9->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
315                static_cast<System::Int32>(static_cast<System::Byte>(64)));
316            this->B9->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
317                static_cast<System::Byte>(0)));
318            this->B9->ForeColor = System::Drawing::Color::White;
319            this->B9->Location = System::Drawing::Point(539, 398);
320            this->B9->Name = L"B9";
321            this->B9->Size = System::Drawing::Size(85, 35);
322            this->B9->TabIndex = 65;
323            this->B9->Text = L"9";
324            this->B9->UseVisualStyleBackColor = false;
325            this->B9->Click += gcnew System::EventHandler(this, &SCalc::B9_Click);
326            //
327            // B0
328            //
329            this->B0->Anchor = System::Windows::Forms::AnchorStyles::None;
330            this->B0->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
331                static_cast<System::Int32>(static_cast<System::Byte>(64)));
332            this->B0->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
333                static_cast<System::Byte>(0)));
334            this->B0->ForeColor = System::Drawing::Color::White;
335            this->B0->Location = System::Drawing::Point(357, 439);
336            this->B0->Name = L"B0";
337            this->B0->Size = System::Drawing::Size(176, 35);
338            this->B0->TabIndex = 66;
339            this->B0->Text = L"0";
340            this->B0->UseVisualStyleBackColor = false;
341            this->B0->Click += gcnew System::EventHandler(this, &SCalc::B0_Click);
342            //
343            // B11
344            //
345            this->B11->Anchor = System::Windows::Forms::AnchorStyles::None;
346            this->B11->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
80 %      No issues found
```

```
FILE  EDIT  VIEW  PROJECT  BUILD  DEBUG  TEST  ANALYZE  TOOLS  EXTENSIONS  WINDOW  HELP        Search (Ctrl+Q)                    SCacl          Sig

Debug        x86            Local Windows Debugger

SCalc.h*  X   SCalc.cpp        SCalc.h [Design]*
346            this->B11->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
347                static_cast<System::Int32>(static_cast<System::Byte>(64)));
348            this->B11->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
349                static_cast<System::Byte>(0)));
350            this->B11->ForeColor = System::Drawing::Color::White;
351            this->B11->Location = System::Drawing::Point(539, 439);
352            this->B11->Name = L"B11";
353            this->B11->Size = System::Drawing::Size(85, 35);
354            this->B11->TabIndex = 67;
355            this->B11->Text = L".";
356            this->B11->UseVisualStyleBackColor = false;
357            this->B11->Click += gcnew System::EventHandler(this, &SCalc::B11_Click);
358            //
359            // Mul
360            //
361            this->Mul->Anchor = System::Windows::Forms::AnchorStyles::None;
362            this->Mul->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(255)), static_cast<System::Int32>(static_cast<System::Byte>(128)),
363                static_cast<System::Int32>(static_cast<System::Byte>(0)));
364            this->Mul->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
365                static_cast<System::Byte>(0)));
366            this->Mul->ForeColor = System::Drawing::Color::White;
367            this->Mul->Location = System::Drawing::Point(630, 316);
368            this->Mul->Name = L"Mul";
369            this->Mul->Size = System::Drawing::Size(85, 35);
370            this->Mul->TabIndex = 68;
371            this->Mul->Text = L"x";
372            this->Mul->UseVisualStyleBackColor = false;
373            this->Mul->Click += gcnew System::EventHandler(this, &SCalc::Mul_Click);
374            //
375            // Min
376            //
377            this->Min->Anchor = System::Windows::Forms::AnchorStyles::None;
378            this->Min->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(255)), static_cast<System::Int32>(static_cast<System::Byte>(128)),
379                static_cast<System::Int32>(static_cast<System::Byte>(0)));
380            this->Min->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
381                static_cast<System::Byte>(0)));
382            this->Min->ForeColor = System::Drawing::Color::White;
383            this->Min->Location = System::Drawing::Point(630, 357);
384            this->Min->Name = L"Min";
385            this->Min->Size = System::Drawing::Size(85, 35);
386            this->Min->TabIndex = 69;
387            this->Min->Text = L"-";
388            this->Min->UseVisualStyleBackColor = false;
389            this->Min->Click += gcnew System::EventHandler(this, &SCalc::Min_Click);
80 %      No issues found
```

```cpp
389            this->Min->Click += gcnew System::EventHandler(this, &SCalc::Min_Click);
390            //
391            // Add
392            //
393            this->Add->Anchor = System::Windows::Forms::AnchorStyles::None;
394            this->Add->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(255)), static_cast<System::Int32>(static_cast<System::Byte>(128)),
395                static_cast<System::Int32>(static_cast<System::Byte>(0)));
396            this->Add->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
397                static_cast<System::Byte>(0)));
398            this->Add->ForeColor = System::Drawing::Color::White;
399            this->Add->Location = System::Drawing::Point(630, 398);
400            this->Add->Name = L"Add";
401            this->Add->Size = System::Drawing::Size(85, 35);
402            this->Add->TabIndex = 70;
403            this->Add->Text = L"+";
404            this->Add->UseVisualStyleBackColor = false;
405            this->Add->Click += gcnew System::EventHandler(this, &SCalc::Add_Click);
406            //
407            // Eq
408            //
409            this->Eq->Anchor = System::Windows::Forms::AnchorStyles::None;
410            this->Eq->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(255)), static_cast<System::Int32>(static_cast<System::Byte>(128)),
411                static_cast<System::Int32>(static_cast<System::Byte>(0)));
412            this->Eq->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
413                static_cast<System::Byte>(0)));
414            this->Eq->ForeColor = System::Drawing::Color::White;
415            this->Eq->Location = System::Drawing::Point(630, 439);
416            this->Eq->Name = L"Eq";
417            this->Eq->Size = System::Drawing::Size(85, 35);
418            this->Eq->TabIndex = 71;
419            this->Eq->Text = L"=";
420            this->Eq->UseVisualStyleBackColor = false;
421            this->Eq->Click += gcnew System::EventHandler(this, &SCalc::Eq_Click);
422            //
423            // Div
424            //
425            this->Div->Anchor = System::Windows::Forms::AnchorStyles::None;
426            this->Div->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(255)), static_cast<System::Int32>(static_cast<System::Byte>(128)),
427                static_cast<System::Int32>(static_cast<System::Byte>(0)));
428            this->Div->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
429                static_cast<System::Byte>(0)));
430            this->Div->ForeColor = System::Drawing::Color::White;
431            this->Div->Location = System::Drawing::Point(630, 275);
432            this->Div->Name = L"Div";
```

```cpp
432            this->Div->Name = L"Div";
433            this->Div->Size = System::Drawing::Size(85, 35);
434            this->Div->TabIndex = 72;
435            this->Div->Text = L"/";
436            this->Div->UseVisualStyleBackColor = false;
437            this->Div->Click += gcnew System::EventHandler(this, &SCalc::Div_Click);
438            //
439            // del
440            //
441            this->del->Anchor = System::Windows::Forms::AnchorStyles::None;
442            this->del->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
443                static_cast<System::Int32>(static_cast<System::Byte>(64)));
444            this->del->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
445                static_cast<System::Byte>(0)));
446            this->del->ForeColor = System::Drawing::Color::White;
447            this->del->Location = System::Drawing::Point(357, 275);
448            this->del->Name = L"del";
449            this->del->Size = System::Drawing::Size(85, 35);
450            this->del->TabIndex = 73;
451            this->del->Text = L"CE";
452            this->del->UseVisualStyleBackColor = false;
453            this->del->Click += gcnew System::EventHandler(this, &SCalc::del_Click);
454            //
455            // Root
456            //
457            this->Root->Anchor = System::Windows::Forms::AnchorStyles::None;
458            this->Root->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
459                static_cast<System::Int32>(static_cast<System::Byte>(64)));
460            this->Root->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
461                static_cast<System::Byte>(0)));
462            this->Root->ForeColor = System::Drawing::Color::White;
463            this->Root->Location = System::Drawing::Point(448, 275);
464            this->Root->Name = L"Root";
465            this->Root->Size = System::Drawing::Size(85, 35);
466            this->Root->TabIndex = 74;
467            this->Root->Text = L"√";
468            this->Root->UseVisualStyleBackColor = false;
469            this->Root->Click += gcnew System::EventHandler(this, &SCalc::Root_Click);
470            //
471            // Mod
472            //
473            this->Mod->Anchor = System::Windows::Forms::AnchorStyles::None;
474            this->Mod->BackColor = System::Drawing::Color::FromArgb(static_cast<System::Int32>(static_cast<System::Byte>(64)), static_cast<System::Int32>(static_cast<System::Byte>(64)),
475                static_cast<System::Int32>(static_cast<System::Byte>(64)));
```

```
475                    static_cast<System::Int32>(static_cast<System::Byte>(64)));
476            this->Mod->Font = (gcnew System::Drawing::Font(L"Tahoma", 9.5F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
477                    static_cast<System::Byte>(0)));
478            this->Mod->ForeColor = System::Drawing::Color::White;
479            this->Mod->Location = System::Drawing::Point(539, 275);
480            this->Mod->Name = L"Mod";
481            this->Mod->Size = System::Drawing::Size(85, 35);
482            this->Mod->TabIndex = 75;
483            this->Mod->Text = L"%";
484            this->Mod->UseVisualStyleBackColor = false;
485            this->Mod->Click += gcnew System::EventHandler(this, &SCalc::Mod_Click);
486            //
487            // InputA
488            //
489            this->InputA->Anchor = System::Windows::Forms::AnchorStyles::None;
490            this->InputA->BackColor = System::Drawing::Color::WhiteSmoke;
491            this->InputA->Font = (gcnew System::Drawing::Font(L"Tahoma", 20.25F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
492                    static_cast<System::Byte>(0)));
493            this->InputA->Location = System::Drawing::Point(58, 147);
494            this->InputA->Multiline = true;
495            this->InputA->Name = L"InputA";
496            this->InputA->Size = System::Drawing::Size(459, 41);
497            this->InputA->TabIndex = 76;
498            this->InputA->TextChanged += gcnew System::EventHandler(this, &SCalc::InputA_TextChanged);
499            //
500            // InputB
501            //
502            this->InputB->Anchor = System::Windows::Forms::AnchorStyles::None;
503            this->InputB->BackColor = System::Drawing::Color::WhiteSmoke;
504            this->InputB->Font = (gcnew System::Drawing::Font(L"Tahoma", 20.25F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
505                    static_cast<System::Byte>(0)));
506            this->InputB->ImeMode = System::Windows::Forms::ImeMode::NoControl;
507            this->InputB->Location = System::Drawing::Point(58, 227);
508            this->InputB->Multiline = true;
509            this->InputB->Name = L"InputB";
510            this->InputB->Size = System::Drawing::Size(459, 42);
511            this->InputB->TabIndex = 77;
512            this->InputB->TextChanged += gcnew System::EventHandler(this, &SCalc::InputB_TextChanged);
513            //
514            // Res
515            //
516            this->Res->Anchor = System::Windows::Forms::AnchorStyles::None;
517            this->Res->BackColor = System::Drawing::Color::WhiteSmoke;
518            this->Res->Font = (gcnew System::Drawing::Font(L"Tahoma", 20.25F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
```

80 %   No issues found

```
518        this->Res->Font = (gcnew System::Drawing::Font(L"Tahoma", 20.25F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
519                static_cast<System::Byte>(0)));
520        this->Res->Location = System::Drawing::Point(571, 176);
521        this->Res->Multiline = true;
522        this->Res->Name = L"Res";
523        this->Res->Size = System::Drawing::Size(459, 58);
524        this->Res->TabIndex = 78;
525        this->Res->TextChanged += gcnew System::EventHandler(this, &SCalc::Res_TextChanged_1);
526        //
527        // Sign
528        //
529        this->Sign->Anchor = System::Windows::Forms::AnchorStyles::None;
530        this->Sign->Font = (gcnew System::Drawing::Font(L"Tahoma", 14.25F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
531                static_cast<System::Byte>(0)));
532        this->Sign->Location = System::Drawing::Point(523, 176);
533        this->Sign->Name = L"Sign";
534        this->Sign->Size = System::Drawing::Size(42, 58);
535        this->Sign->TabIndex = 79;
536        this->Sign->Text = L"=";
537        this->Sign->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;
538        //
539        // Op
540        //
541        this->Op->Anchor = System::Windows::Forms::AnchorStyles::None;
542        this->Op->Font = (gcnew System::Drawing::Font(L"Tahoma", 15.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
543                static_cast<System::Byte>(0)));
544        this->Op->Location = System::Drawing::Point(256, 192);
545        this->Op->Name = L"Op";
546        this->Op->Size = System::Drawing::Size(55, 33);
547        this->Op->TabIndex = 80;
548        this->Op->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;
549        //
550        // label1
551        //
552        this->label1->Anchor = System::Windows::Forms::AnchorStyles::None;
553        this->label1->Font = (gcnew System::Drawing::Font(L"Tahoma", 14.25F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
554                static_cast<System::Byte>(0)));
555        this->label1->Location = System::Drawing::Point(10, 140);
556        this->label1->Name = L"label1";
557        this->label1->Size = System::Drawing::Size(42, 58);
558        this->label1->TabIndex = 81;
559        this->label1->Text = L"A";
560        this->label1->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;
561        //
```
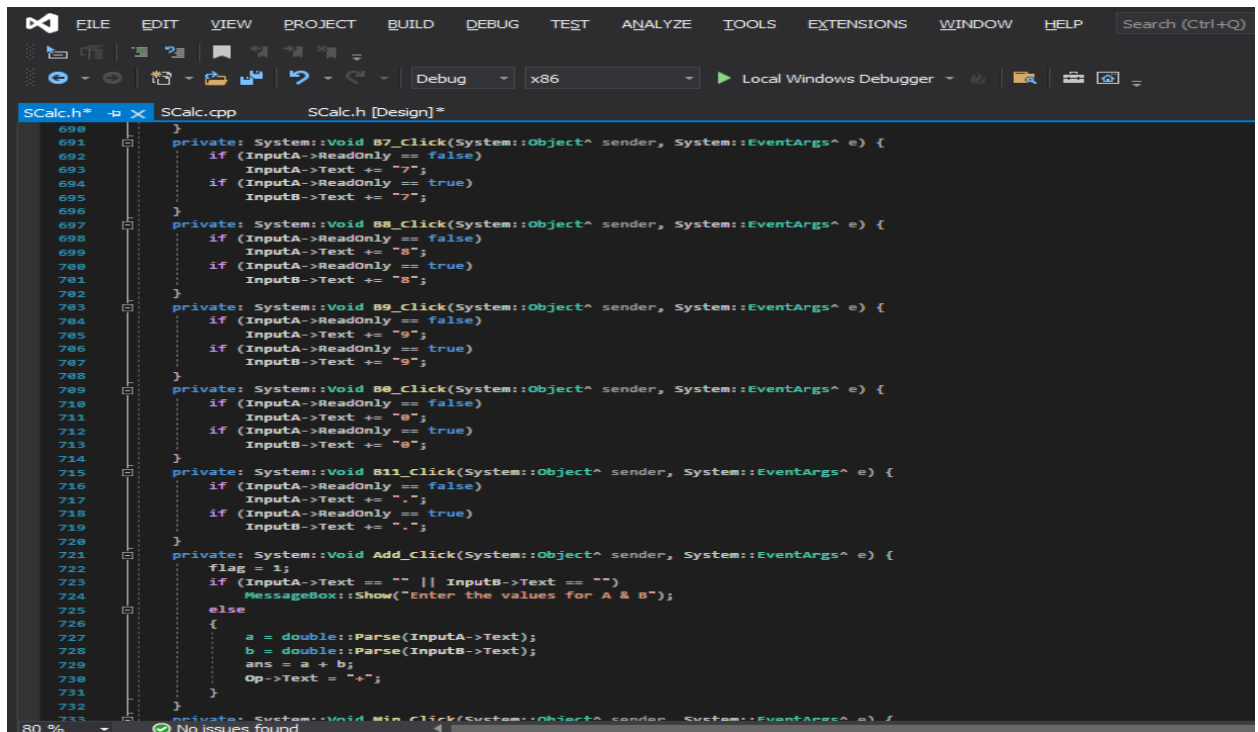
80 %   No issues found

SCalc.h* ⇥ ✕   SCalc.cpp   SCalc.h [Design]*

```cpp
562         // label3
563         //
564         this->label3->Anchor = System::Windows::Forms::AnchorStyles::None;
565         this->label3->Font = (gcnew System::Drawing::Font(L"Tahoma", 14.25F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
566             static_cast<System::Byte>(0)));
567         this->label3->Location = System::Drawing::Point(10, 220);
568         this->label3->Name = L"label3";
569         this->label3->Size = System::Drawing::Size(42, 58);
570         this->label3->TabIndex = 82;
571         this->label3->Text = L"B";
572         this->label3->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;
573         //
574         // Accept
575         //
576         this->Accept->Anchor = System::Windows::Forms::AnchorStyles::None;
577         this->Accept->BackColor = System::Drawing::Color::Transparent;
578         this->Accept->BackgroundImageLayout = System::Windows::Forms::ImageLayout::None;
579         this->Accept->FlatAppearance->BorderSize = 0;
580         this->Accept->FlatStyle = System::Windows::Forms::FlatStyle::Flat;
581         this->Accept->Font = (gcnew System::Drawing::Font(L"Wingdings", 15.75F, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
582             static_cast<System::Byte>(2)));
583         this->Accept->ForeColor = System::Drawing::Color::Gainsboro;
584         this->Accept->Location = System::Drawing::Point(523, 147);
585         this->Accept->Name = L"Accept";
586         this->Accept->Size = System::Drawing::Size(23, 35);
587         this->Accept->TabIndex = 83;
588         this->Accept->Text = L"B";
589         this->Accept->UseVisualStyleBackColor = false;
590         this->Accept->Click += gcnew System::EventHandler(this, &SCalc::Accept_Click);
591         //
592         // Reject
593         //
594         this->Reject->Anchor = System::Windows::Forms::AnchorStyles::None;
595         this->Reject->BackColor = System::Drawing::Color::Transparent;
596         this->Reject->BackgroundImageLayout = System::Windows::Forms::ImageLayout::None;
597         this->Reject->FlatAppearance->BorderSize = 0;
598         this->Reject->FlatStyle = System::Windows::Forms::FlatStyle::Flat;
599         this->Reject->Font = (gcnew System::Drawing::Font(L"Wingdings", 18, System::Drawing::FontStyle::Regular, System::Drawing::GraphicsUnit::Point,
600             static_cast<System::Byte>(2)));
601         this->Reject->ForeColor = System::Drawing::Color::DarkGreen;
602         this->Reject->Location = System::Drawing::Point(542, 147);
603         this->Reject->Name = L"Reject";
604         this->Reject->Size = System::Drawing::Size(23, 35);
605         this->Reject->TabIndex = 84;
```

80 %   ⊘ No issues found

SCalc.h* ⇥ ✕   SCalc.cpp   SCalc.h [Design]*

```cpp
605         this->Reject->TabIndex = 84;
606         this->Reject->Text = L"B";
607         this->Reject->UseVisualStyleBackColor = false;
608         this->Reject->Click += gcnew System::EventHandler(this, &SCalc::Reject_Click);
609         //
610         // SCalc
611         //
612         this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);
613         this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;
614         this->BackColor = System::Drawing::Color::DarkGray;
615         this->ClientSize = System::Drawing::Size(1059, 515);
616         this->Controls->Add(this->Reject);
617         this->Controls->Add(this->Accept);
618         this->Controls->Add(this->label3);
619         this->Controls->Add(this->label1);
620         this->Controls->Add(this->Op);
621         this->Controls->Add(this->Sign);
622         this->Controls->Add(this->Res);
623         this->Controls->Add(this->InputB);
624         this->Controls->Add(this->InputA);
625         this->Controls->Add(this->Mod);
626         this->Controls->Add(this->Root);
627         this->Controls->Add(this->del);
628         this->Controls->Add(this->Div);
629         this->Controls->Add(this->Eq);
630         this->Controls->Add(this->Add);
631         this->Controls->Add(this->Min);
632         this->Controls->Add(this->Mul);
633         this->Controls->Add(this->B11);
634         this->Controls->Add(this->B0);
635         this->Controls->Add(this->B9);
636         this->Controls->Add(this->B8);
637         this->Controls->Add(this->B7);
638         this->Controls->Add(this->B6);
639         this->Controls->Add(this->B5);
640         this->Controls->Add(this->B4);
641         this->Controls->Add(this->B3);
642         this->Controls->Add(this->B2);
643         this->Controls->Add(this->B1);
644         this->Controls->Add(this->label2);
645         this->Controls->Add(this->FromIntro);
646         this->Controls->Add(this->TitleBar);
647         this->MinimumSize = System::Drawing::Size(1075, 550);
648         this->Name = L"SCalc";
```
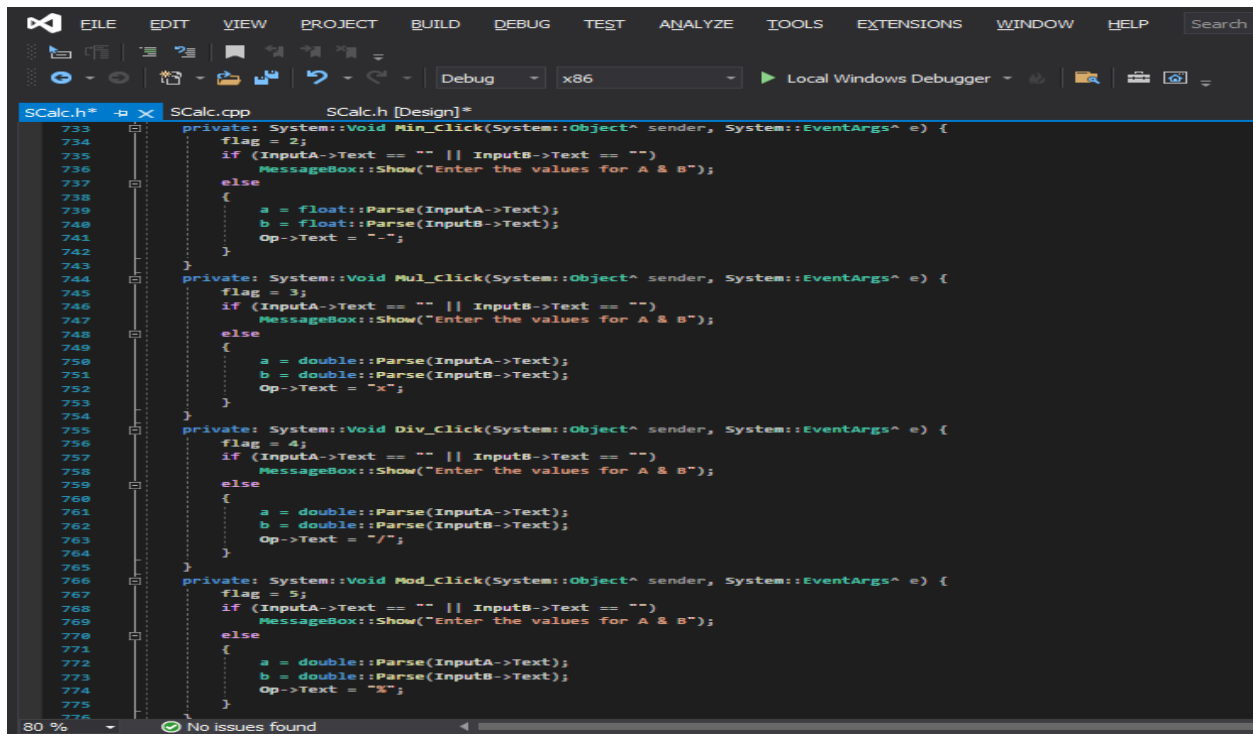
80 %   ⊘ No issues found

```cpp
648                    this->Name = L"SCalc";
649                    this->Text = L"SCalc";
650                    this->ResumeLayout(false);
651                    this->PerformLayout();
652                }
653
654        #pragma endregion
655            private: System::Void B1_Click(System::Object^ sender, System::EventArgs^ e) {
656                if(InputA->ReadOnly == false)
657                    InputA->Text += "1";
658                if (InputA->ReadOnly == true)
659                    InputB->Text += "1";
660            }
661            private: System::Void B2_Click(System::Object^ sender, System::EventArgs^ e) {
662                if (InputA->ReadOnly == false)
663                    InputA->Text += "2";
664                if (InputA->ReadOnly == true)
665                    InputB->Text += "2";
666            }
667            private: System::Void B3_Click(System::Object^ sender, System::EventArgs^ e) {
668                if (InputA->ReadOnly == false)
669                    InputA->Text += "3";
670                if (InputA->ReadOnly == true)
671                    InputB->Text += "3";
672            }
673            private: System::Void B4_Click(System::Object^ sender, System::EventArgs^ e) {
674                if (InputA->ReadOnly == false)
675                    InputA->Text += "4";
676                if (InputA->ReadOnly == true)
677                    InputB->Text += "4";
678            }
679            private: System::Void B5_Click(System::Object^ sender, System::EventArgs^ e) {
680                if (InputA->ReadOnly == false)
681                    InputA->Text += "5";
682                if (InputA->ReadOnly == true)
683                    InputB->Text += "5";
684            }
685            private: System::Void B6_Click(System::Object^ sender, System::EventArgs^ e) {
686                if (InputA->ReadOnly == false)
687                    InputA->Text += "6";
688                if (InputA->ReadOnly == true)
689                    InputB->Text += "6";
690            }
691            private: System::Void B7_Click(System::Object^ sender, System::EventArgs^ e) {
```
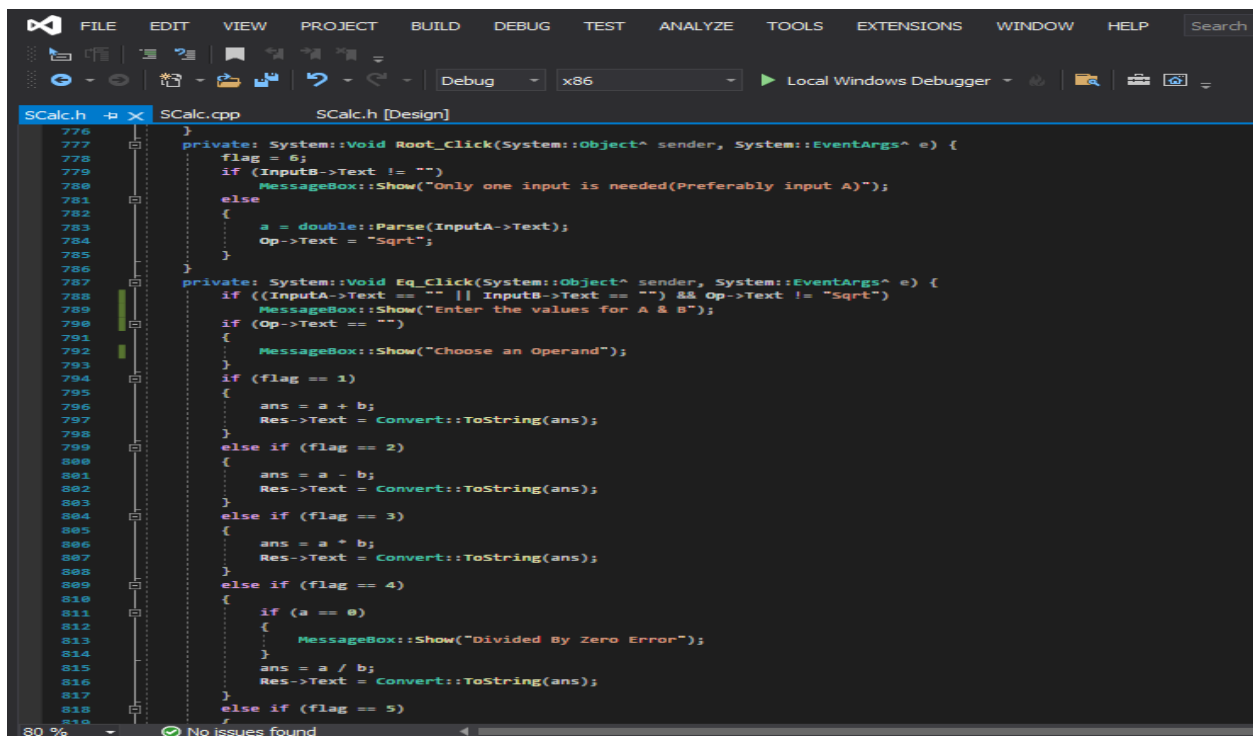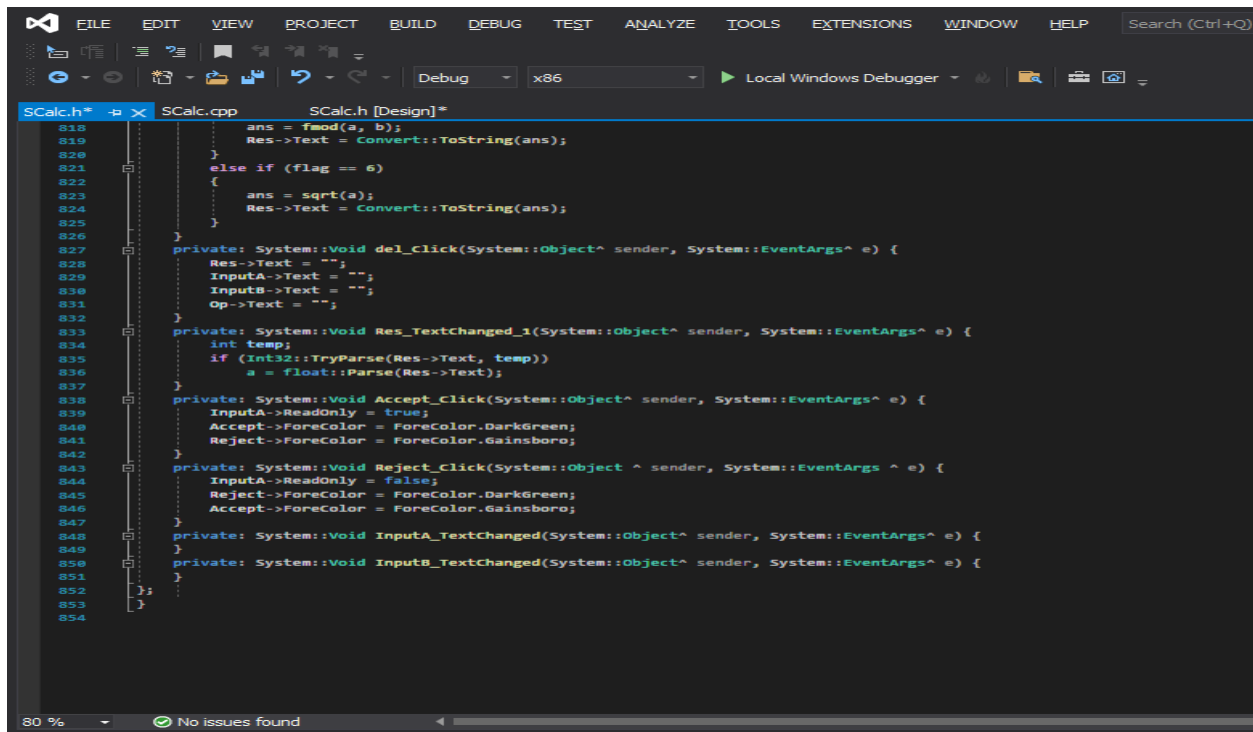
```cpp
690            }
691            private: System::Void B7_Click(System::Object^ sender, System::EventArgs^ e) {
692                if (InputA->ReadOnly == false)
693                    InputA->Text += "7";
694                if (InputA->ReadOnly == true)
695                    InputB->Text += "7";
696            }
697            private: System::Void B8_Click(System::Object^ sender, System::EventArgs^ e) {
698                if (InputA->ReadOnly == false)
699                    InputA->Text += "8";
700                if (InputA->ReadOnly == true)
701                    InputB->Text += "8";
702            }
703            private: System::Void B9_Click(System::Object^ sender, System::EventArgs^ e) {
704                if (InputA->ReadOnly == false)
705                    InputA->Text += "9";
706                if (InputA->ReadOnly == true)
707                    InputB->Text += "9";
708            }
709            private: System::Void B0_Click(System::Object^ sender, System::EventArgs^ e) {
710                if (InputA->ReadOnly == false)
711                    InputA->Text += "0";
712                if (InputA->ReadOnly == true)
713                    InputB->Text += "0";
714            }
715            private: System::Void B11_Click(System::Object^ sender, System::EventArgs^ e) {
716                if (InputA->ReadOnly == false)
717                    InputA->Text += ".";
718                if (InputA->ReadOnly == true)
719                    InputB->Text += ".";
720            }
721            private: System::Void Add_Click(System::Object^ sender, System::EventArgs^ e) {
722                flag = 1;
723                if (InputA->Text == "" || InputB->Text == "")
724                    MessageBox::Show("Enter the values for A & B");
725                else
726                {
727                    a = double::Parse(InputA->Text);
728                    b = double::Parse(InputB->Text);
729                    ans = a + b;
730                    Op->Text = "+";
731                }
732            }
733            private: System::Void Min_Click(System::Object^ sender, System::EventArgs^ e) {
```

```cpp
733        private: System::Void Min_Click(System::Object^ sender, System::EventArgs^ e) {
734            flag = 2;
735            if (InputA->Text == "" || InputB->Text == "")
736                MessageBox::Show("Enter the values for A & B");
737            else
738            {
739                a = float::Parse(InputA->Text);
740                b = float::Parse(InputB->Text);
741                Op->Text = "-";
742            }
743        }
744        private: System::Void Mul_Click(System::Object^ sender, System::EventArgs^ e) {
745            flag = 3;
746            if (InputA->Text == "" || InputB->Text == "")
747                MessageBox::Show("Enter the values for A & B");
748            else
749            {
750                a = double::Parse(InputA->Text);
751                b = double::Parse(InputB->Text);
752                Op->Text = "x";
753            }
754        }
755        private: System::Void Div_Click(System::Object^ sender, System::EventArgs^ e) {
756            flag = 4;
757            if (InputA->Text == "" || InputB->Text == "")
758                MessageBox::Show("Enter the values for A & B");
759            else
760            {
761                a = double::Parse(InputA->Text);
762                b = double::Parse(InputB->Text);
763                Op->Text = "/";
764            }
765        }
766        private: System::Void Mod_Click(System::Object^ sender, System::EventArgs^ e) {
767            flag = 5;
768            if (InputA->Text == "" || InputB->Text == "")
769                MessageBox::Show("Enter the values for A & B");
770            else
771            {
772                a = double::Parse(InputA->Text);
773                b = double::Parse(InputB->Text);
774                Op->Text = "%";
775            }
776        }
```

80 %   ⊘ No issues found

```cpp
776        }
777        private: System::Void Root_Click(System::Object^ sender, System::EventArgs^ e) {
778            flag = 6;
779            if (InputB->Text != "")
780                MessageBox::Show("Only one input is needed(Preferably input A)");
781            else
782            {
783                a = double::Parse(InputA->Text);
784                Op->Text = "Sqrt";
785            }
786        }
787        private: System::Void Eq_Click(System::Object^ sender, System::EventArgs^ e) {
788            if ((InputA->Text == "" || InputB->Text == "") && Op->Text != "Sqrt")
789                MessageBox::Show("Enter the values for A & B");
790            if (Op->Text == "")
791            {
792                MessageBox::Show("Choose an Operand");
793            }
794            if (flag == 1)
795            {
796                ans = a + b;
797                Res->Text = Convert::ToString(ans);
798            }
799            else if (flag == 2)
800            {
801                ans = a - b;
802                Res->Text = Convert::ToString(ans);
803            }
804            else if (flag == 3)
805            {
806                ans = a * b;
807                Res->Text = Convert::ToString(ans);
808            }
809            else if (flag == 4)
810            {
811                if (a == 0)
812                {
813                    MessageBox::Show("Divided By Zero Error");
814                }
815                ans = a / b;
816                Res->Text = Convert::ToString(ans);
817            }
818            else if (flag == 5)
```

80 %   ⊘ No issues found

```
818                    ans = fmod(a, b);
819                    Res->Text = Convert::ToString(ans);
820            }
821            else if (flag == 6)
822            {
823                    ans = sqrt(a);
824                    Res->Text = Convert::ToString(ans);
825            }
826        }
827        private: System::Void del_Click(System::Object^ sender, System::EventArgs^ e) {
828            Res->Text = "";
829            InputA->Text = "";
830            InputB->Text = "";
831            Op->Text = "";
832        }
833        private: System::Void Res_TextChanged_1(System::Object^ sender, System::EventArgs^ e) {
834            int temp;
835            if (Int32::TryParse(Res->Text, temp))
836                    a = float::Parse(Res->Text);
837        }
838        private: System::Void Accept_Click(System::Object^ sender, System::EventArgs^ e) {
839            InputA->ReadOnly = true;
840            Accept->ForeColor = ForeColor.DarkGreen;
841            Reject->ForeColor = ForeColor.Gainsboro;
842        }
843        private: System::Void Reject_Click(System::Object ^ sender, System::EventArgs ^ e) {
844            InputA->ReadOnly = false;
845            Reject->ForeColor = ForeColor.DarkGreen;
846            Accept->ForeColor = ForeColor.Gainsboro;
847        }
848        private: System::Void InputA_TextChanged(System::Object^ sender, System::EventArgs^ e) {
849        }
850        private: System::Void InputB_TextChanged(System::Object^ sender, System::EventArgs^ e) {
851        }
852    };
853    }
854
```

PROGRAM OUTPUT

Minimum size
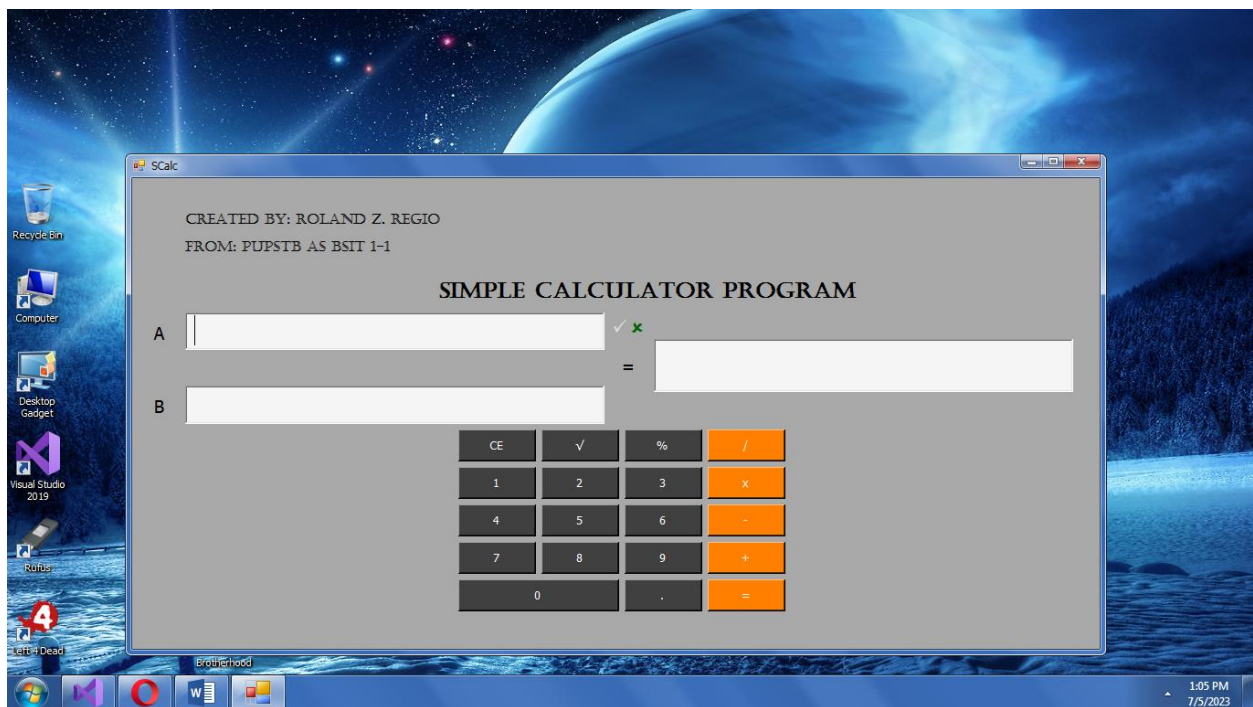
Maximum size & Addition Function [Add A and B][Addition Button]

- Type input value for A & B.

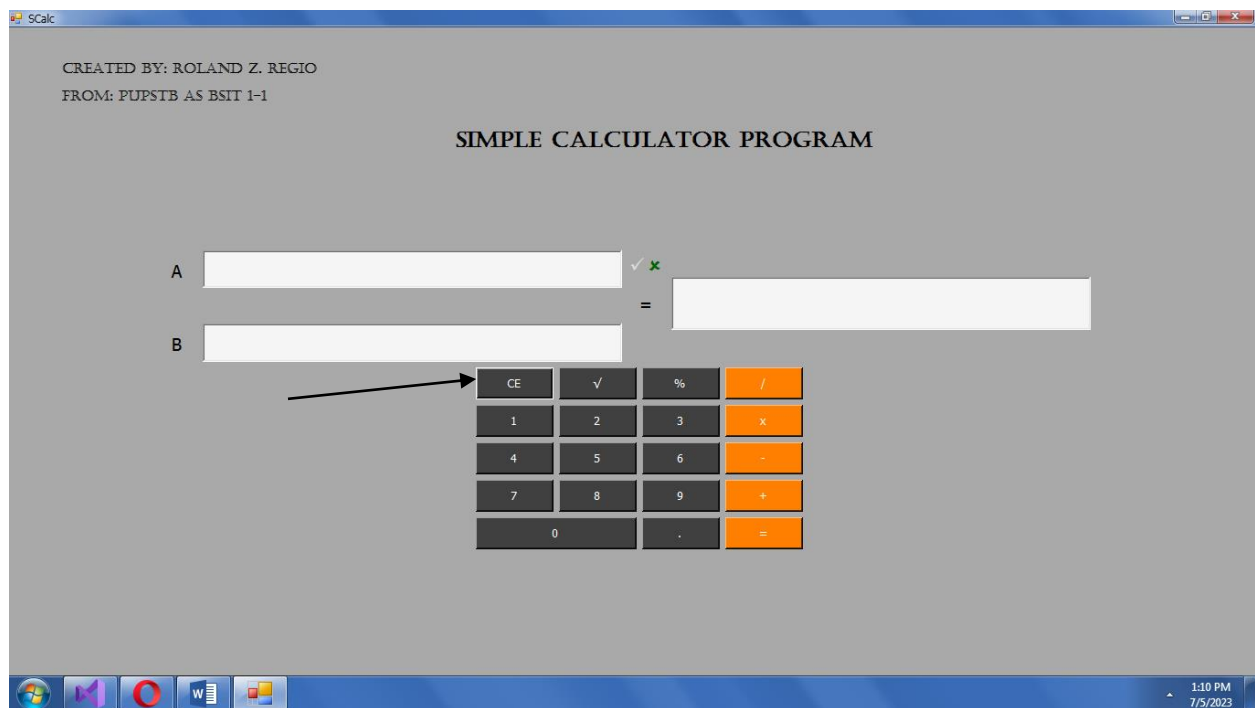- Click the Operand (Addition). Then, Click the Equal Button for Answer.
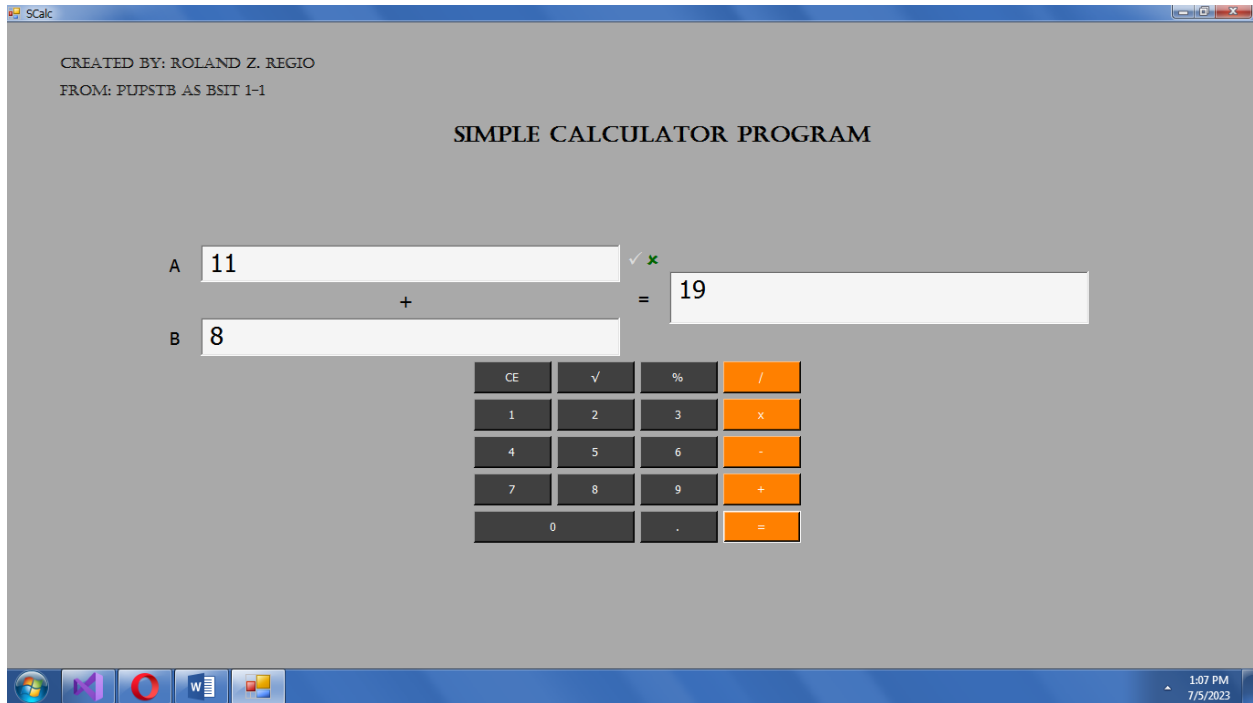
Operand Function Message Box [If user click an operand or equal button but one of A & B is empty except if Square Root function is clicked]
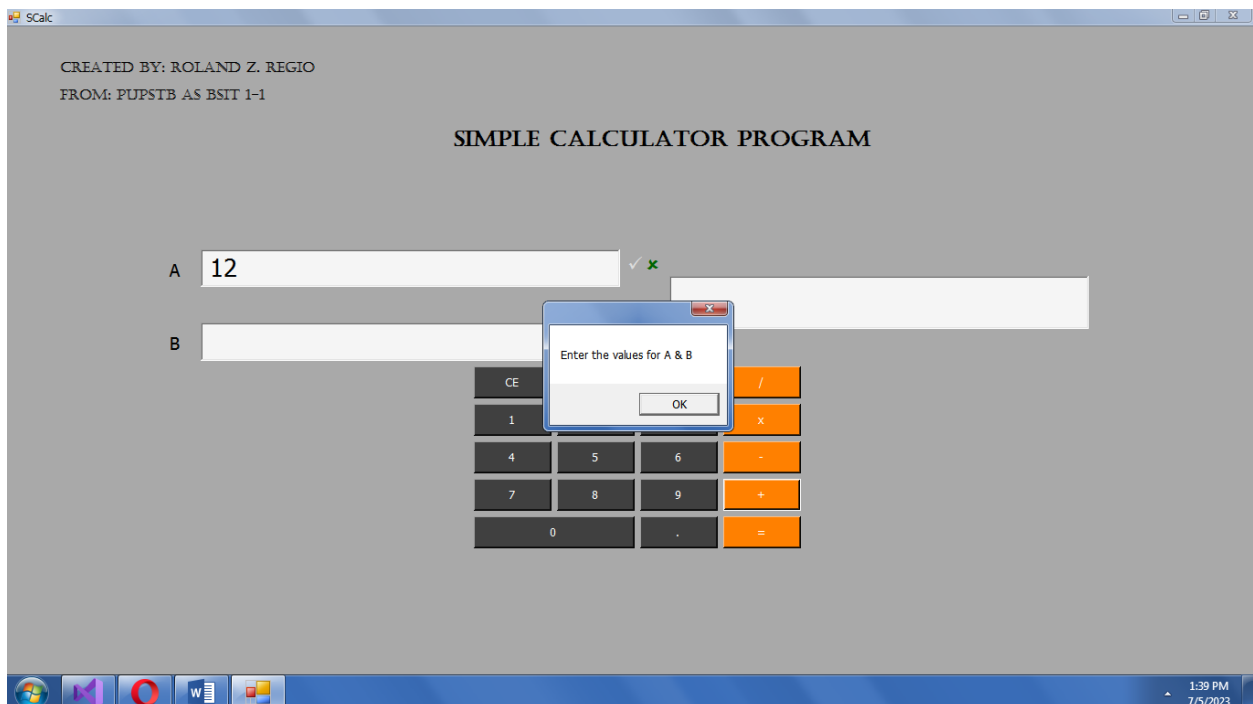
Equal Button Function Message Box [If user click Equal button without an Operand]
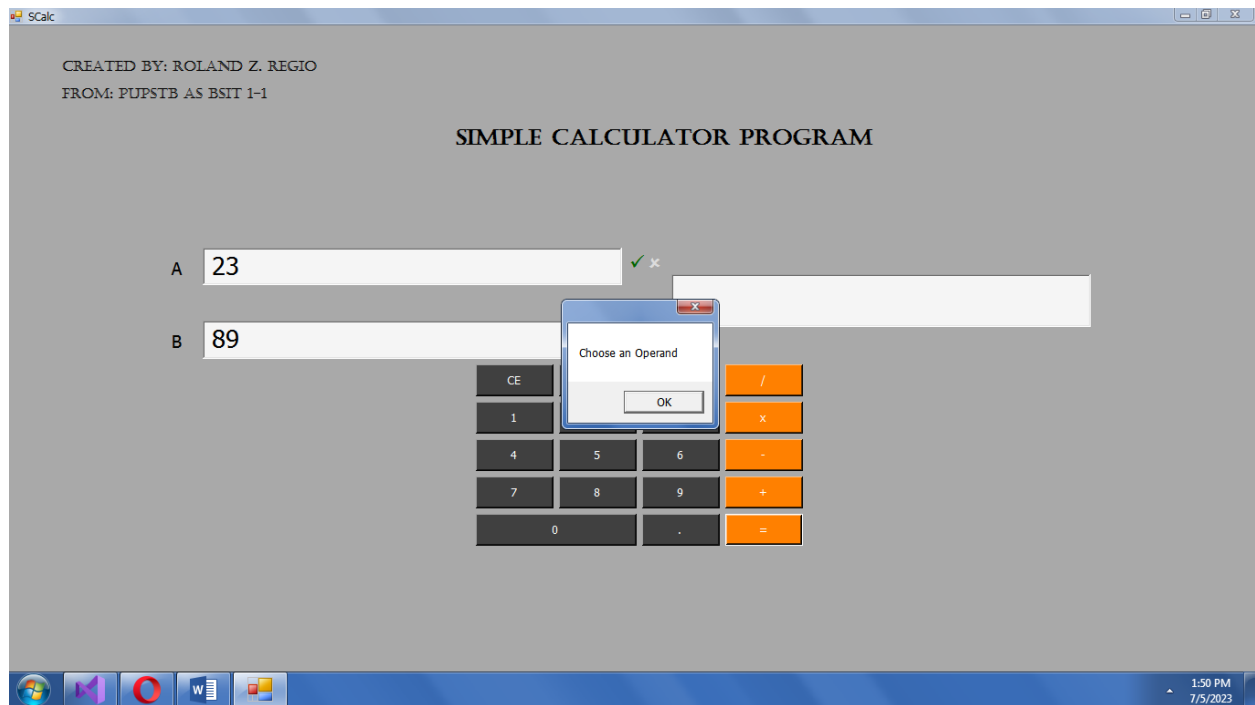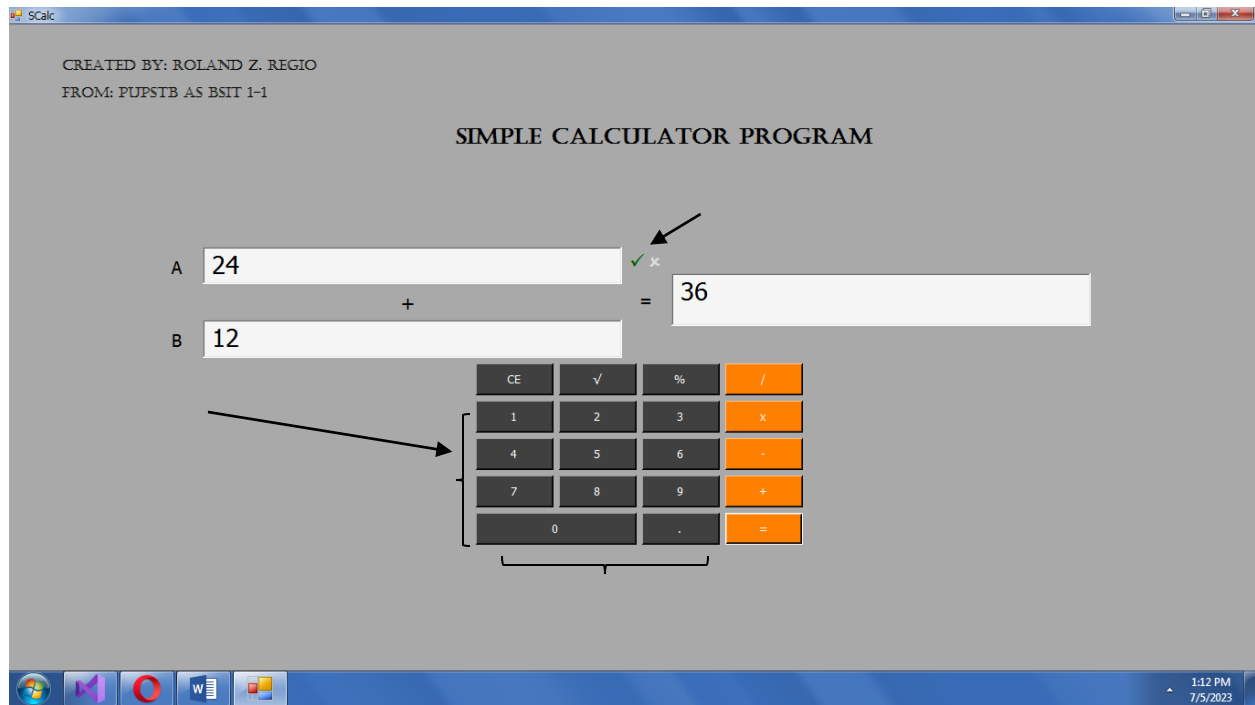

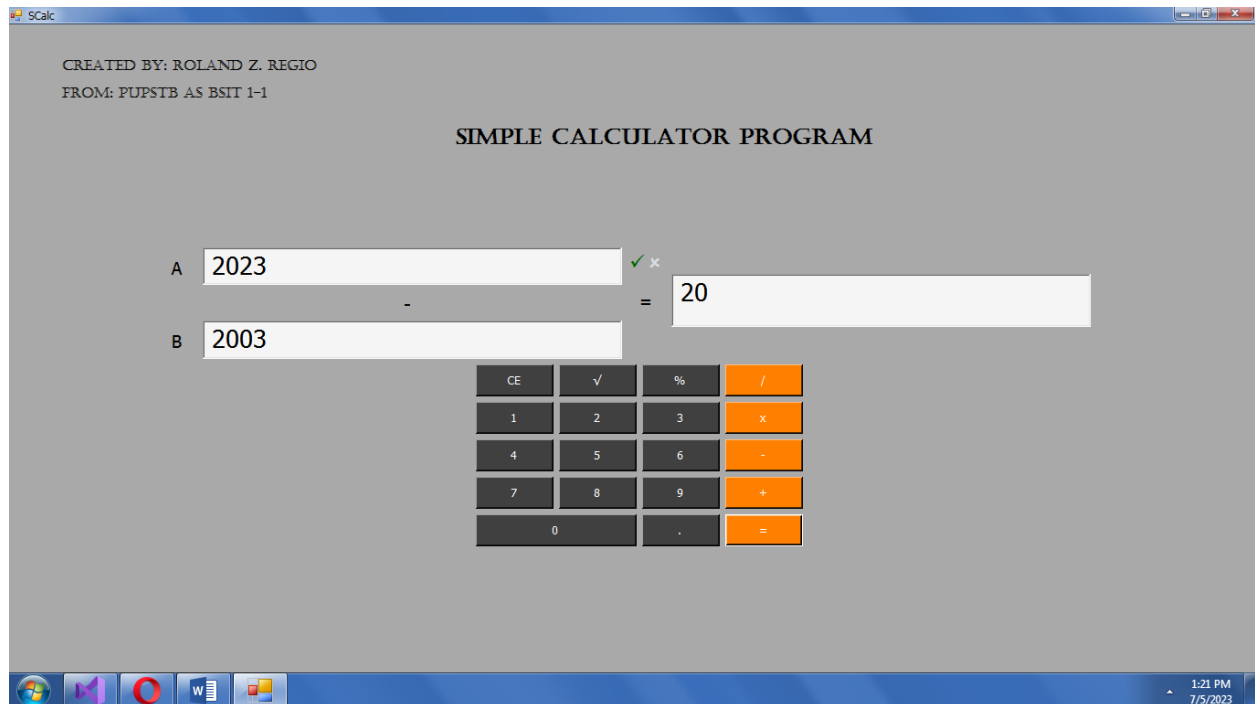Clearing Entries Function [CE button] (Clear A, B, Operand Label & Answer)

Using Numpad Function [0-9 & "." Buttons]

- (When × is click) InputA is getting the Numpad input and × turn green.

- (When ✓ is click) InputB is getting the Numpad input and ✓ turn green.
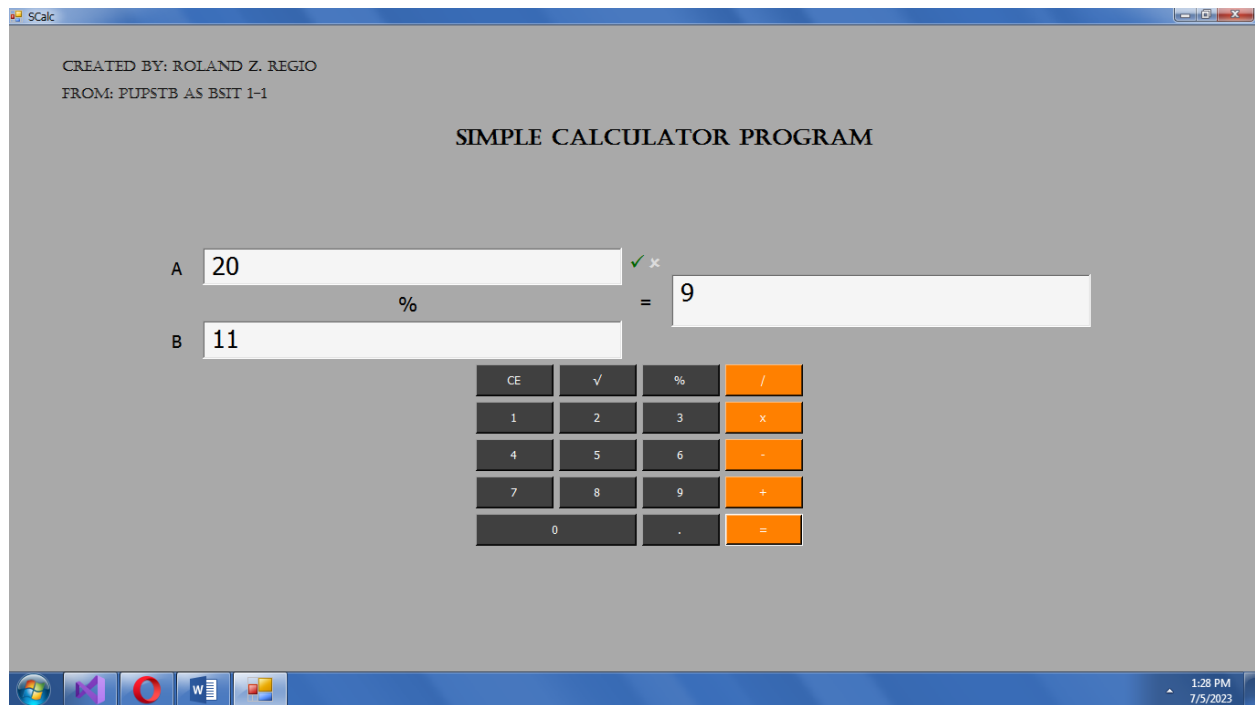

Subtraction Function [A − B][Subtraction Button]

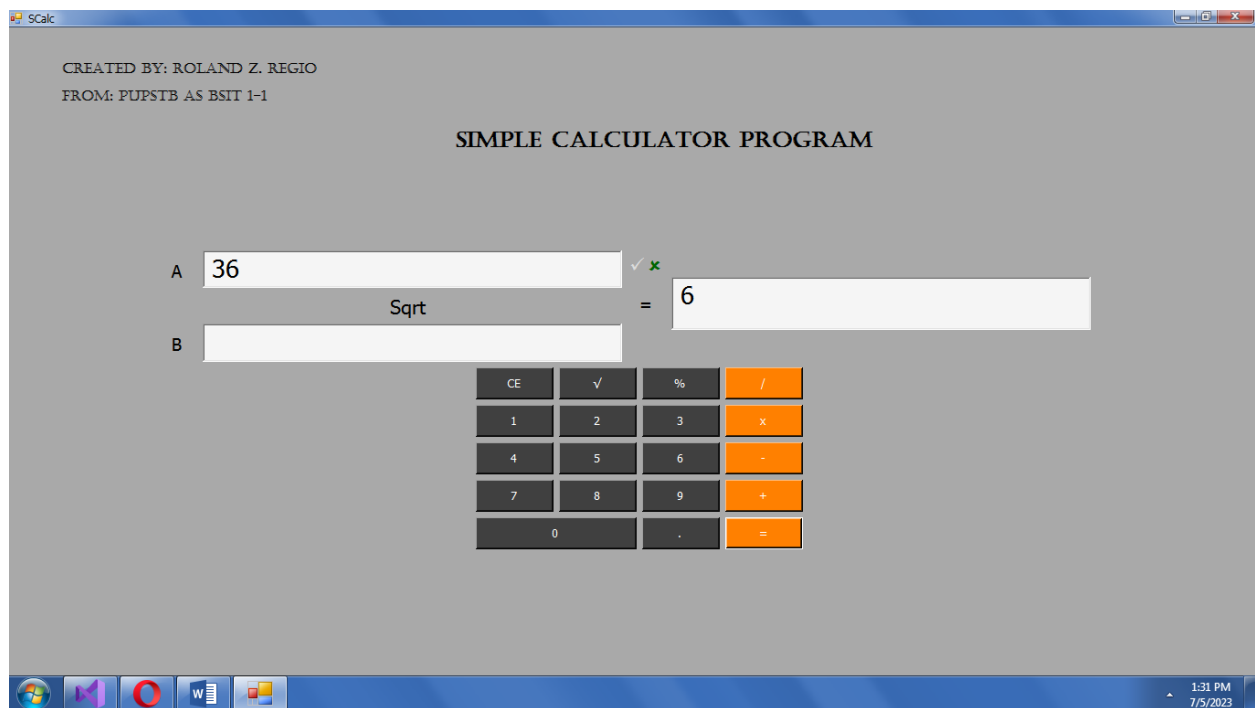## Multiplication Function [A * B][Multiplication Button]
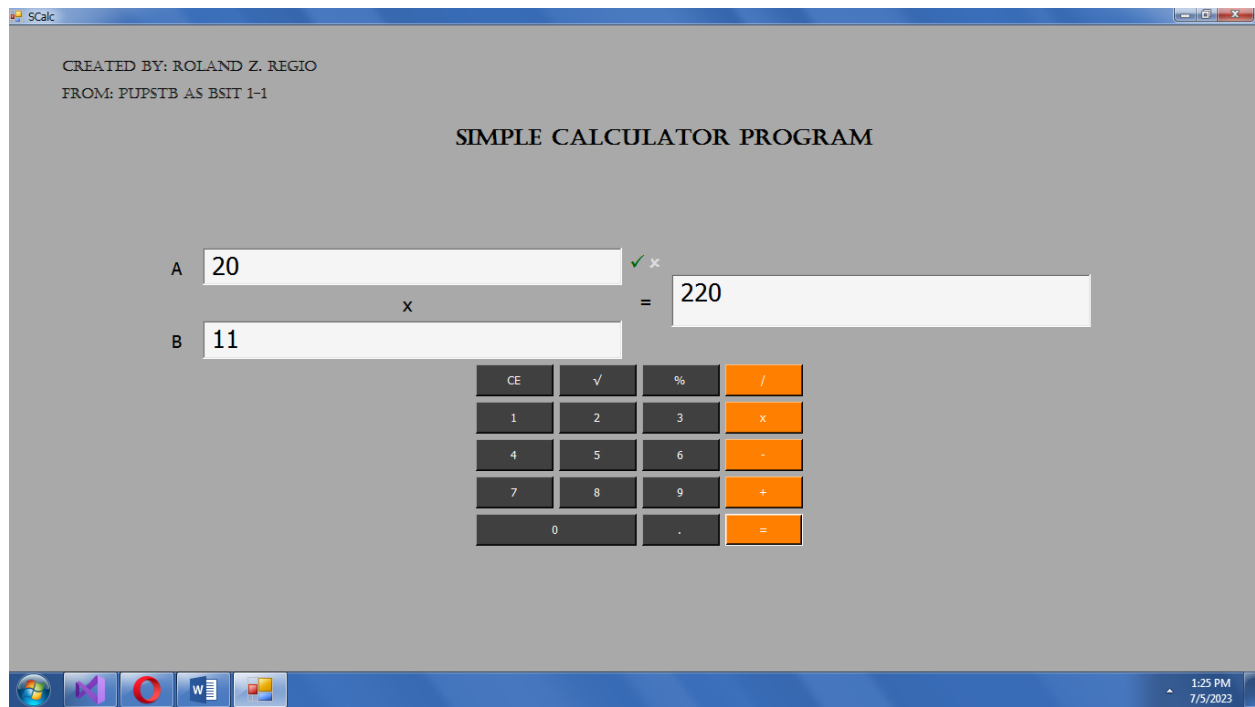
Division Function [A / B][Division Button]
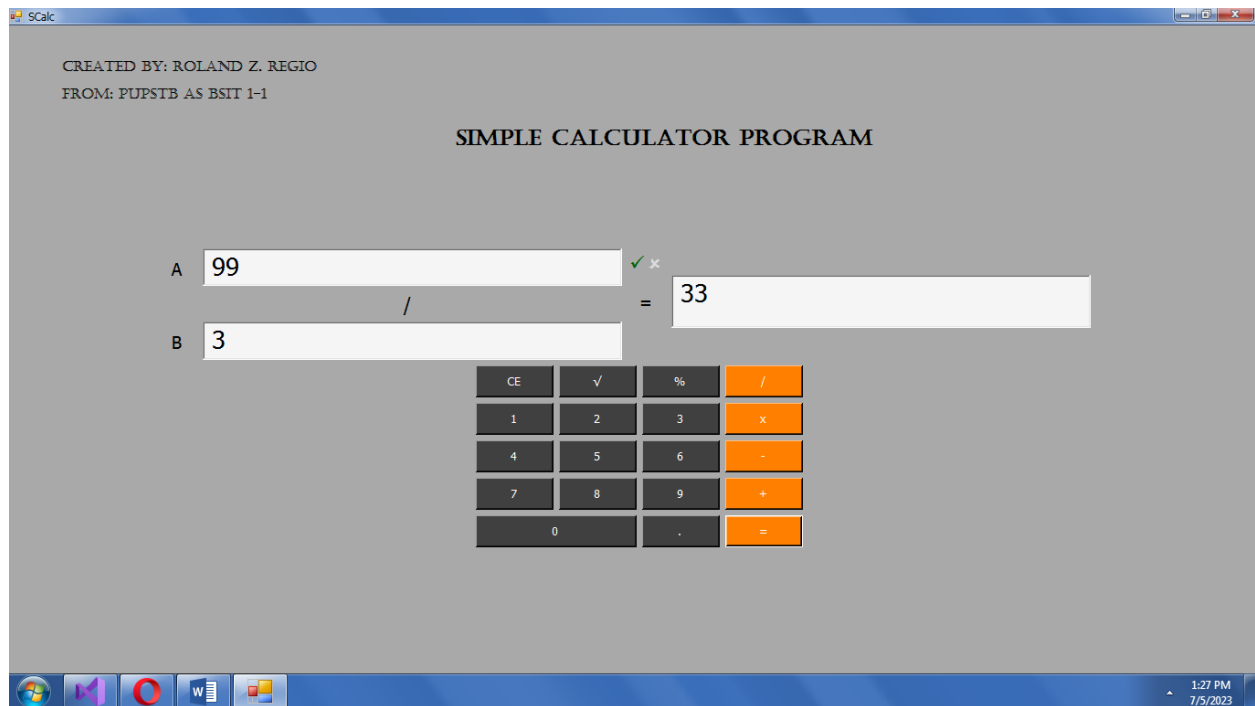
Modulo Function [A % B][Modulo Button]

Square Root Function [√A][Square Root Button]

Square Root Function Message Box [If input comes from B and if input comes from both A & B]