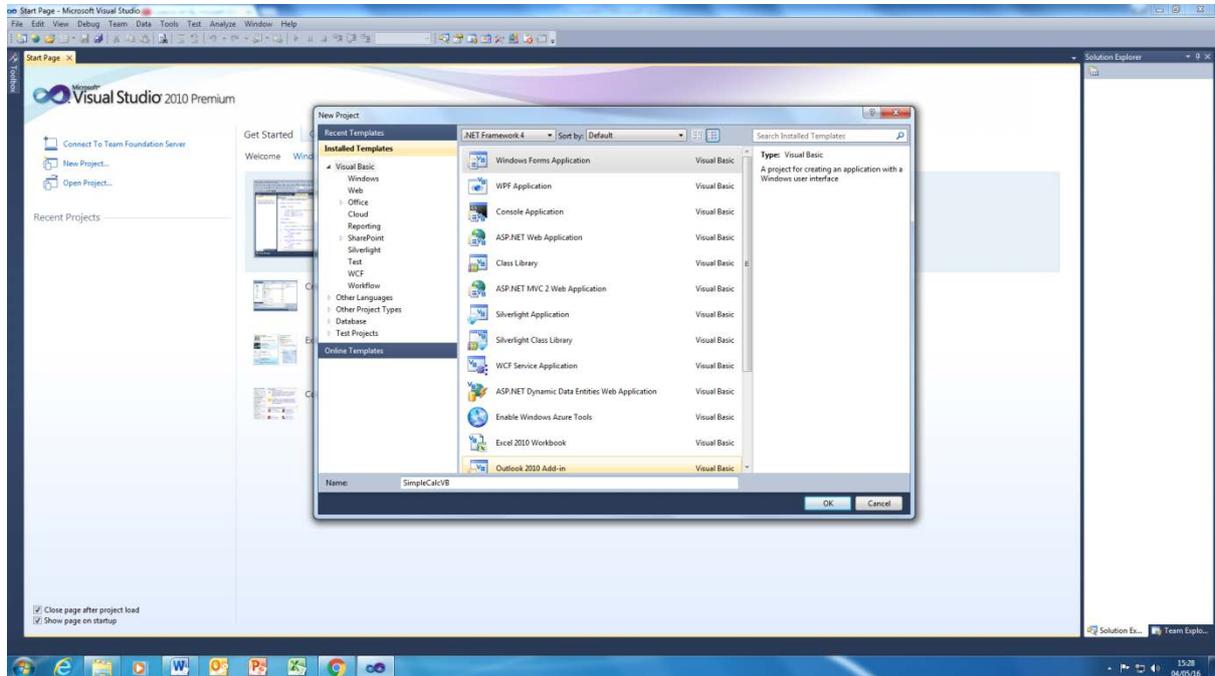


Simple Calculator

In this tutorial we will create a simple calculator to Add/Subtract/Multiply and Divide two numbers and show a simple message box result.

Let's get started

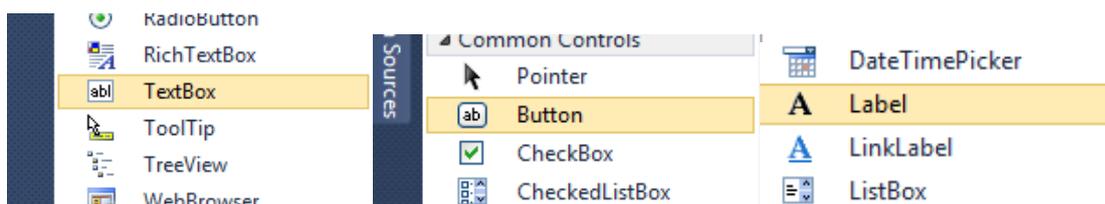
First create a new Visual Basic Windows Form Project



Lets call it simpleCalcVB.

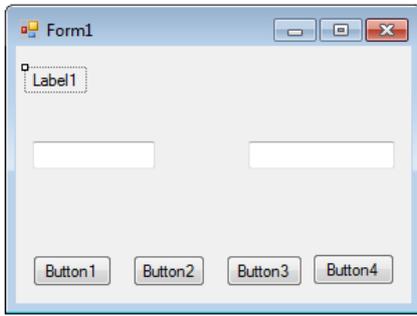
From the tool box we need the following

1. 2 text boxes
2. 4 buttons
3. 1 label



This is the view of the Form now

Arrange your components so it looks like this



Now let's change the text property in each of these components

Label1 -> Change text to Simple VB Calculator

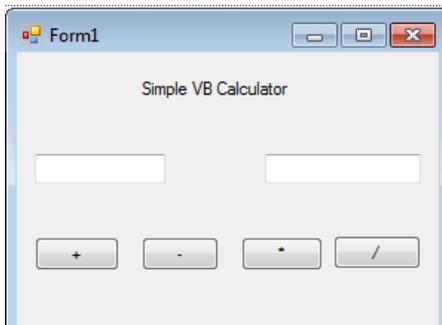
Button1 -> change text to +

Button2 -> change text to -

Button3 -> change text to *

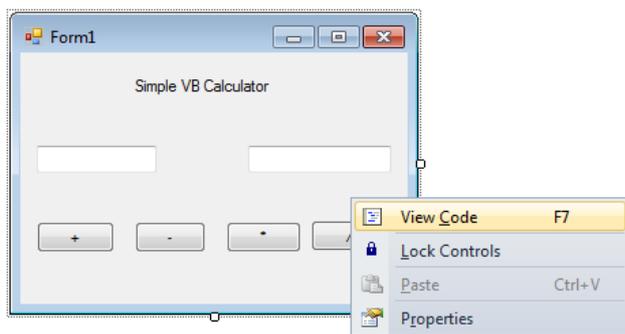
Button4 -> change text to /

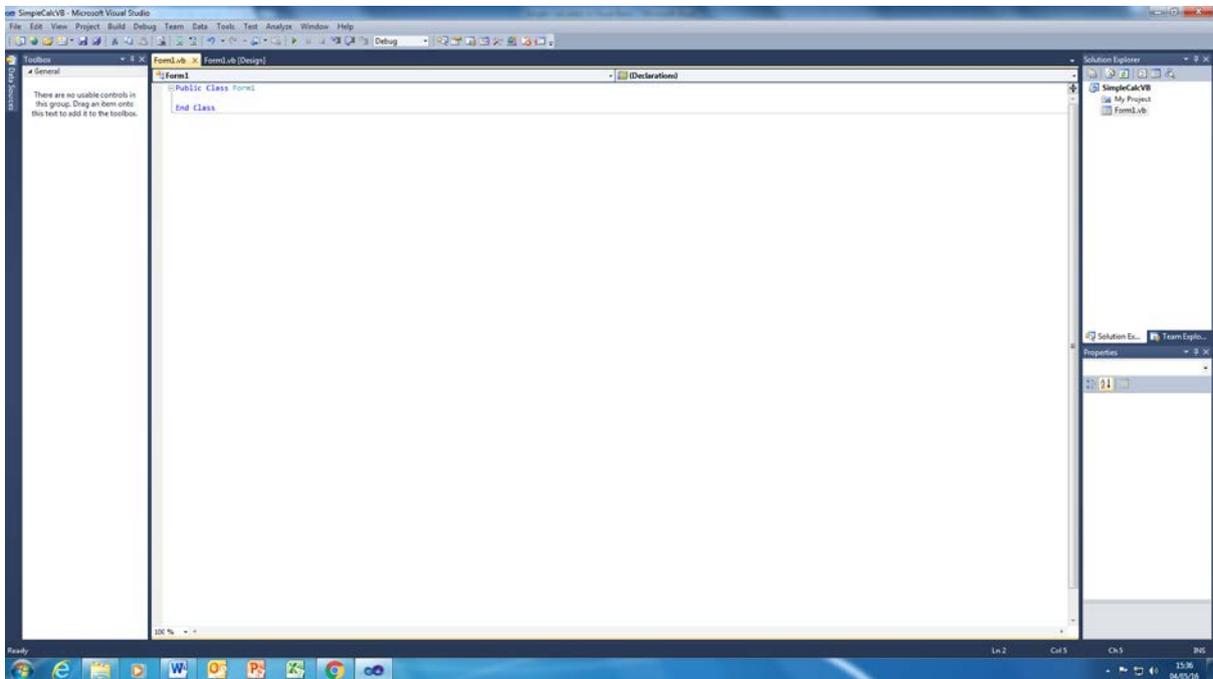
Each button to a calculation for us and then return a result on screen.



Lets get started with the code now.

First of all right click on the form and Click on Show Code





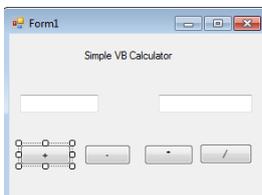
This is what the code view looks like at the moment. We don't have any code to run except the Form 1 class there. All the code for this program will go inside that class.

We need to create two different variables first. These variables will be used to store the numbers from each text box. I know you are already thinking about integers; well you are not wrong we do a number variable however we want one that can hold decimal numbers and not just whole numbers.

```
PublicClassForm1  
  
Dim numA As Double  
Dim numB As Double  
  
EndClass
```

Integers hold numbers such as 1, 2, 30, 45, 67542 its all whole numbers but since we have a division button on the mix we will need to a simple division calculation and with an integer we cannot do that. So double variables can hold numbers such as 1.2 , 12.221211 and so on.

Now go back to the design view and double click on the plus button.



```
PublicClassForm1  
  
Dim numA As Double  
Dim numB As Double  
  
PrivateSub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles Button1.Click  
  
EndSub
```

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EndClass

Once you double clicked on the button, visual studio will automatically add the line of code in your project. These lines are now linked to the button 1 which is out plus sign.

Now lets add the following code inside this function

numA = Convert.ToDouble(TextBox1.Text)

This line is calling the numA variable we created earlier and storing some value inside it. Now since the user will be using those text boxes to enter the numbers they want to calculate they will be stored as Text or Strings. Now we cannot do maths with strings because well you know why. Anyhow since our numA variable is a double we will have to convert them to a double type of data and store them inside it. Hence the line Convert.ToDouble() Inside the brackets we can put in our target which we want to convert in this instance it's the Textbox1 and we are looking for the value which the user has put inside it that's the text portion of Textbox1 hence its Textbox1.Text.

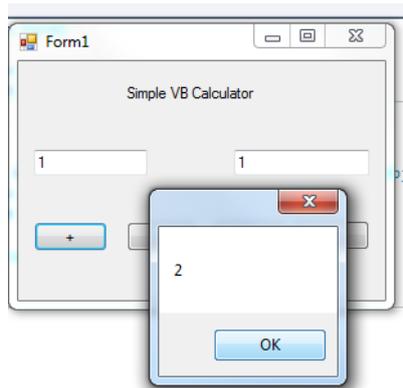
numB = Convert.ToDouble(TextBox2.Text)

Doing the same thing as above except with numB and TextBox2.Text

Now then how can we view our result to the user? We will use a text box.

Lets try this

MessageBox.Show(numA+numB) since its adding the values together



That worked.

Now lets go back and double click on the Minus, Multiply and Divide button and add the following code

```
PublicClassForm1

Dim numA As Double
Dim numB As Double

PrivateSub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button1.Click
'this is the plus button function
numA = Convert.ToDouble(TextBox1.Text)
numB = Convert.ToDouble(TextBox2.Text)

MessageBox.Show(numA + numB) ' notice the plus symbol
EndSub
```

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```

PrivateSub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button2.Click
'this is the minus button function
numA = Convert.ToDouble(TextBox1.Text)
numB = Convert.ToDouble(TextBox2.Text)

MessageBox.Show(numA - numB) 'notice the minus symbol
EndSub

PrivateSub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button3.Click
'this is the multiply button function
numA = Convert.ToDouble(TextBox1.Text)
numB = Convert.ToDouble(TextBox2.Text)

MessageBox.Show(numA * numB) 'notice the multiply symbol
EndSub

PrivateSub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button4.Click
'this is the divide button function
numA = Convert.ToDouble(TextBox1.Text)
numB = Convert.ToDouble(TextBox2.Text)

MessageBox.Show(numA / numB) 'notice the divide symbol
EndSub
EndClass

```

Notice where the symbols changed for the calculations, it's inside the message boxes.

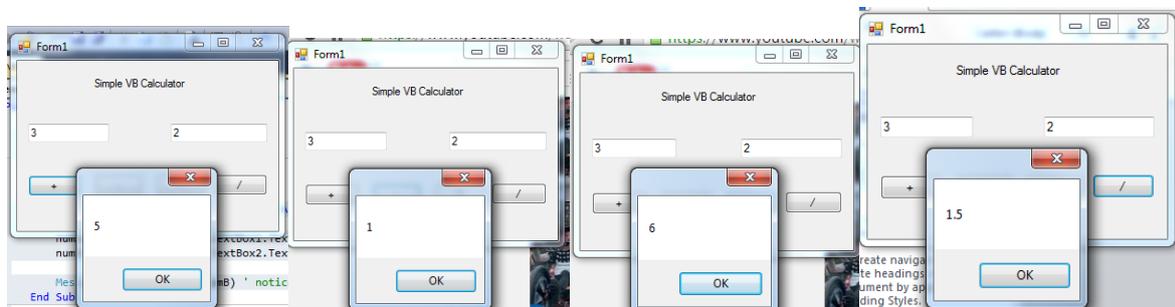
MessageBox.Show(numA + numB)

MessageBox.Show(numA - numB)

MessageBox.Show(numA * numB)

MessageBox.Show(numA / numB)

Here are the results



See the decimal is working in the end. Now go make something else.

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