Introduction to VB.NET Programming

VB.NET is a beginner-friendly language. Learn key concepts like input, output, and application development. It is a great starting point for programming.



Setting Up Your Environment

Install Visual Studio

Explore the IDE

Download the free Community Edition from Microsoft.

Get familiar with Solution Explorer and the Toolbox.

Create a new Windows Forms App project.

Use the Designer and Code Editor.

System requirements: Windows 10 or 11, 4GB RAM, 5GB disk space.

Input and Output in VB.NET



Input

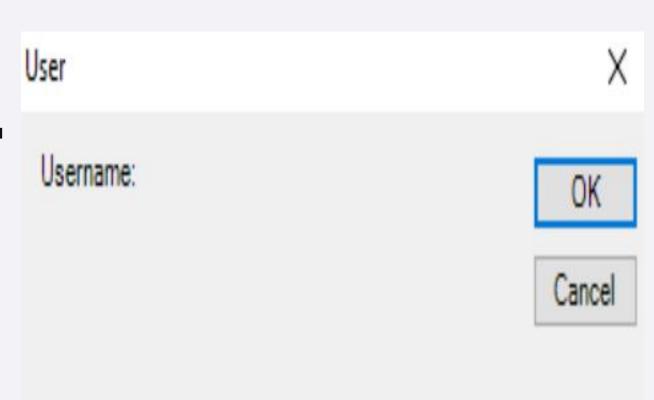
Gather data from the user with TextBox controls.



Output

Display information using Label controls and MessageBox.Show().

Example: `Dim userInput As String = TextBox1.Text` and `Label1.Text = "Hello, " & userInput`.



Enter usemame here

11 335:415330

+ 3

8

0

F

8

-

+

5

5

8

rosh is.

Building a Calculator (Part 1)

Add Input Controls

Use TextBox controls for Number1 and Number2.

Add Operation Buttons

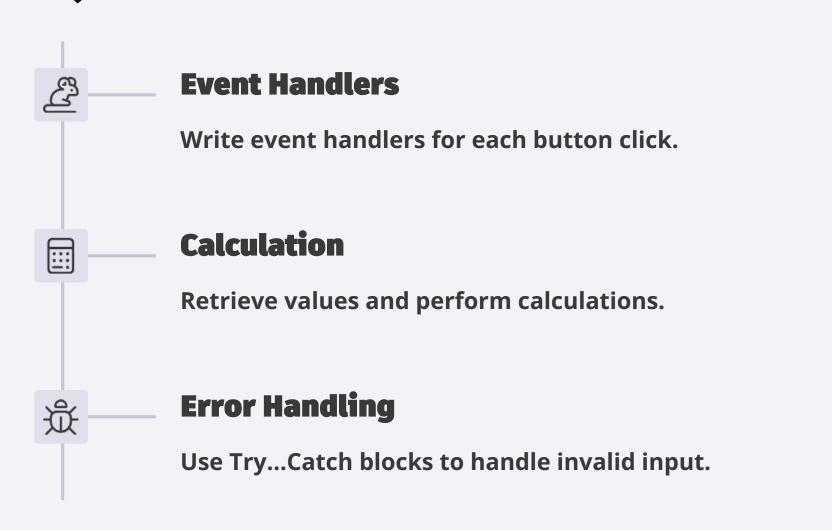
Include buttons for +, -, *, and / operations.

Add Result Label

Use a Label control to display the result (ResultLabel).

Set the Name and Text properties for easy code access.

Building a Calculator (Part 2)



Display results in ResultLabel. Use `MessageBox.Show()` for errors.

Application Form

Name *	
Email address *	
Phone number	
Departments for consideration * Executive Sales Marketing Technology All	Attach any supporting documents (resume, CV, cover letter, etc.) Choose Files No file chosen
	Submit

Creating a Basic Form Application

Labels Display prompts.		
TextBoxes Get text input.		
Selection Use ComboBox or ListBox for options.		
Boolean Choices CheckBox or RadioButton.		

Collect user information. Set properties to customize appearance.

Adding Form Functionality

Retrieve Data

Access Text, SelectedItem, Checked

```
Imports System
Module Calculator
  Sub Main()
    ' Display menu
    Console.WriteLine("Simple Calculator")
    Console.WriteLine("Select operation:")
    Console.WriteLine("1. Add")
    Console.WriteLine("2. Subtract")
    Console.WriteLine("3. Multiply")
    Console.WriteLine("4. Divide")
    'Get user choice
    Console.Write("Enter choice (1/2/3/4): ")
    Dim choice As Integer = Convert.ToInt32(Console.ReadLine())
    'Get two numbers from the user
    Console.Write("Enter first number: ")
    Dim num1 As Double = Convert.ToDouble(Console.ReadLine())
    Console.Write("Enter second number: ")
    Dim num2 As Double = Convert.ToDouble(Console.ReadLine())
    ' Perform calculation based on user choice
    Dim result As Double
    Select Case choice
      Case 1
        result = num1 + num2
        Console.WriteLine($"Result: {num1} + {num2} = {result}")
```

```
Case 3
        result = num1 * num2
        Console.WriteLine($"Result: {num1} * {num2} = {result}")
      Case 4
        If num2 <> 0 Then
          result = num1 / num2
          Console.WriteLine($"Result: {num1} / {num2} = {result}")
        Else
           Console.WriteLine("Error: Cannot divide by zero!")
        End If
      Case Else
        Console.WriteLine("Invalid choice! Please enter 1, 2, 3, or 4.")
    End Select
    'Wait for user input before closing
    Console.WriteLine("Press any key to exit...")
    Console.ReadKey()
  End Sub
End Module
```

VB.NET Code: Simple Calculator