Automated VBA Code Documentation and Transformation

Extracted Code

```
Attribute VB_Name = "Module1"
Private Sub say_helloworld_Click()
   Dim num1 As Double
   Dim num2 As Double
   Dim sum As Double

   num1 = InputBox("Enter the first number:")
   num2 = InputBox("Enter the second number:")

   sum = num1 + num2

   MsgBox "The sum is " & sum
End Sub
```

Documented Code

```vba
' Module Name: Module1
' Purpose: This module demonstrates basic arithmetic
operations by adding two numbers entered by the user.

' Declare variables
Private Sub say_helloworld_Click()
   Dim num1 As Double ' Declares a variable called num1
   Dim num2 As Double ' Declares a variable called num2
   Dim prod As Double ' Declares a variable called to store the result

   ' Get the first number from the user
   num1 = InputBox("Enter the first number:")

   ' Get the second number from the user
   num2 = InputBox("Enter the second number:")

   ' Calculate the sum of num1 and num2
   sum = num1 + num2

   ' Display the result in a message box
   MsgBox "The sum is " & sum
End Sub
```

Functional Logic

The VBA code provided has a function to calculate the sum of two numbers and display the result in a message box. Here's the logic of the function:

1. Declare variables: The code declares three double-precision variables: `num1`, `num2`, and `sum`. These variables will be used to store the input numbers and the result of the sum.

2. Get input from the user: The code uses the `InputBox` function to prompt the user to enter two numbers. The input numbers are stored in the `num1` and `num2` variables.

3. Calculate the sum: The code calculates the sum of the two input numbers and stores the result in the `sum` variable.

4. Display the result: The code uses the `MsgBox` function to display the result of the sum in a message box. The message box displays the text "The sum is" followed by the value of the `sum` variable.

Process Flow Diagram