



Local Variable

- A variable declared inside a Sub procedure with a Dim statement
- Space reserved in memory for that variable until the End Sub – then the variable ceases to exist



Local Variables

```
Private Sub btnOne_Click(...) Handles btnOne_Click
   Dim num As Integer = 4
   SetFive()
   txtBox.Text = CStr(num)
End Sub

Sub SetFive()
   Dim num As Integer = 5
End Sub

Output: 4
```



Class-Level Variables

- Visible to every procedure in a form's code without being passed
- Dim statements for class-level variables are placed
 - Outside all procedures
 - At the top of the program region



Class-Level Variables

```
Dim num As Integer = 4
Private Sub btnOne_Click(...) Handles btnOne_Click
  txtBox.Text = CStr(num)
  SetFive()
  txtBox.Text = CStr(num)
End Sub
Sub SetFive()
  num = 5
End Sub
Output: 5
```



 The scope of a variable is the portion of the program that can refer to it.



- Class-level variables have class-level scope and are available to all procedures in the class.
- Variables declared inside a procedure have local scope and are only available to the procedure in which they are declared.