



# If Blocks

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- If Block
- Elself Clause



# If Block

The program will take a course of action based on whether a condition is true.

**If** *condition* **Then**

*action1*

**Else**

*action2*

**End If**

Will be executed if  
condition is true

Will be executed if  
condition is false



## Another example If block

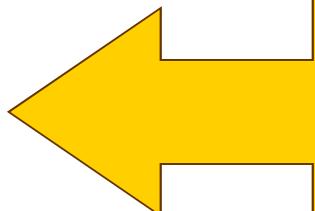
**If** *condition* **Then**

*action1*

**End If**

*Statement2*

*Statement3*

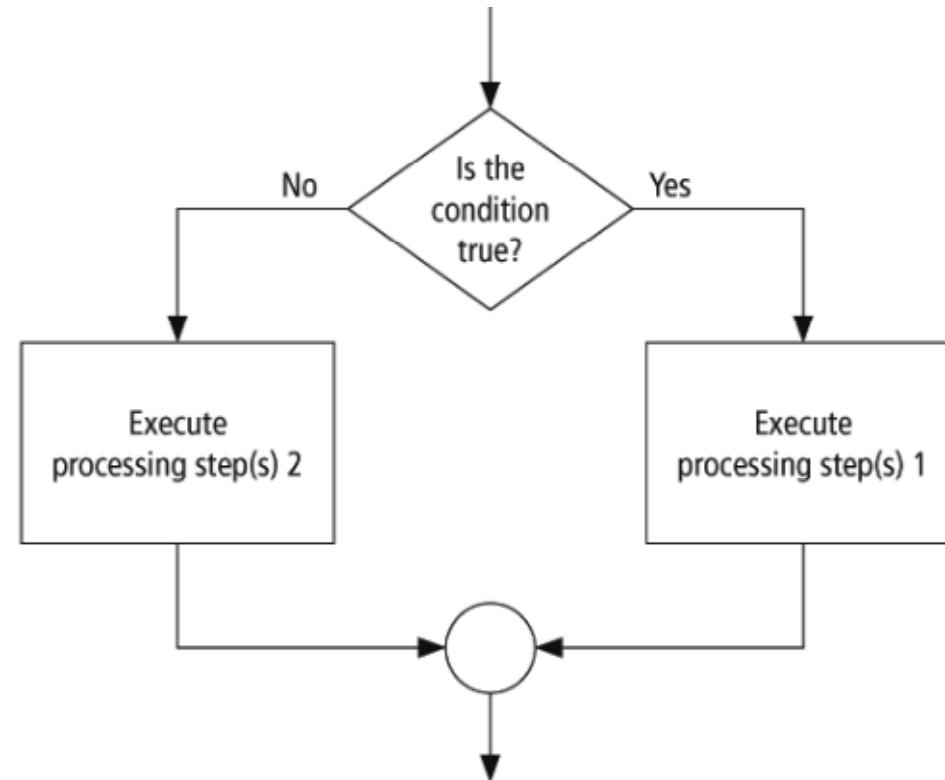


Regardless of whether  
the condition in the  
If statement is True or  
False, these statements  
will be executed



# Pseudocode and Flowchart for an If Block

```
If condition is true Then  
    Processing step(s) 1  
Else  
    Processing step(s) 2  
End If
```





# Lab Sheet 5.3 : Form

A screenshot of a Windows application window titled "Maximum". The window has a blue title bar with the title and standard window controls (minimize, maximize, close). Inside, there are three text input fields labeled "First number:" and "Second number:", each with a corresponding empty text box. Below these is a button labeled "Find Larger Number". At the bottom is a large empty text box labeled "txtResult". Arrows point from the labels to their respective controls: "txtFirstNum" points to the first text box, "txtSecondNum" points to the second text box, and "txtResult" points to the bottom text box.

txtFirstNum

txtSecondNum

txtResult



## Lab Sheet 5.3: Code

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```
Private Sub btnFindLarger_Click(...) _
    Handles btnFindLarger.Click
    Dim num1, num2, largerNum As Double
    num1 = CDbl(txtFirstNum.Text)
    num2 = CDbl(txtSecondNum.Text)
    If num1 > num2 Then
        largerNum = num1
    Else
        largerNum = num2
    End If
    txtResult.Text = "The larger number is " & largerNum
End Sub
```



# Lab Sheet 5.3: Output

Maximum - □ X

First number:

Second number:

**Find Larger Number**

The larger number is 7



# Lab Sheet 5.3: Form

The image shows a Windows-style application window titled "Profit/Loss". The window has a blue title bar with the title and standard minimize, maximize, and close buttons. Inside the window, there are two input fields: one labeled "Costs:" and another labeled "Revenue:". Below these fields is a button labeled "Show Financial Status". At the bottom of the window is a large, empty rectangular area with a light beige background and a thin blue border.



## Lab Sheet 5.3: Code

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```
If costs = revenue Then
    txtResult.Text = "Break even"
Else
    If costs < revenue Then
        profit = revenue - costs
        txtResult.Text = "Profit is " &
                        FormatCurrency(profit)
    Else
        loss = costs - revenue
        txtResult.Text = "Loss is " &
                        FormatCurrency(loss)
    End If
End If
```



# Lab Sheet 5.3: Output

Profit/Loss

Costs:	9500
Revenue:	8000
<b>Show Financial Status</b>	
Loss is \$1,500.00	