



Elseif clause

```
If condition1 Then  
    action1  
ElseIf condition2 Then  
    action2  
ElseIf condition3 Then  
    action3  
Else  
    action4  
End If
```



Example: Form

Maximum

First number:

Second number:

Find Larger Number

txtFirstNum

txtSecondNum

txtResult



Example: Code

```
Private Sub btnFindLarger_Click(...) _  
    Handles btnFindLarger.Click  
    Dim num1, num2 As Double  
    num1 = Cdbl(txtFirstNum.Text)  
    num2 = Cdbl(txtSecondNum.Text)  
    If (num1 > num2) Then  
        txtResult.Text = "Larger number is " & num1  
    ElseIf (num2 > num1) Then  
        txtResult.Text = "Larger number is " & num2  
    Else  
        txtResult.Text = "The two are equal."  
    End If  
End Sub
```



Lab Sheet 5.5: Form

FICA Taxes

Total earnings for this year prior to the current pay period:

Earnings for the current pay period:

FICA taxes for the current pay period:



Lab Sheet 5.5: Code

```
Function CalculateFICA(ByVal ytdEarnings As Double, _  
                      ByVal curEarnings As Double) As Double  
    Dim socialSecurityBenTax, medicareTax As Double  
    If (ytdEarnings + curEarnings) <= 90000 Then  
        socialSecurityBenTax = 0.062 * curEarnings  
    ElseIf ytdEarnings < 90000 Then  
        socialSecurityBenTax = 0.062 * (90000 - ytdEarnings)  
    End If  
    medicareTax = 0.0145 * curEarnings  
    Return socialSecurityBenTax + medicareTax  
End Function
```



Lab Sheet 5.5: Output

FICA Taxes

Total earnings for this year prior to the current pay period: 12345.67

Earnings for the current pay period: 543.21

Calculate FICA Taxes

FICA taxes for the current pay period: \$41.56



Comments

- When one If block is contained inside another If block, the structure is referred to as **nested If blocks**.
- Care should be taken to make If blocks easy to understand.

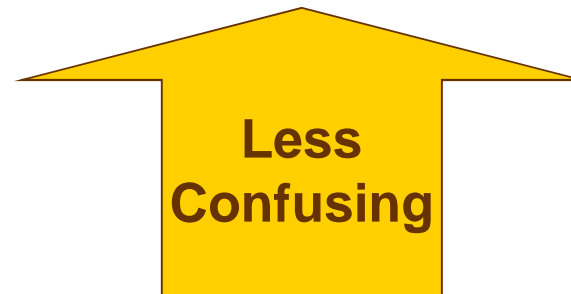


Simplified Nested If Statement

```
If cond1 Then  
  If cond2 Then  
    action  
  End If  
End If
```



```
If cond1 And cond2 Then  
  action  
End If
```





More Comments

- Some programs call for selecting among many possibilities. Although such tasks can be accomplished with complicated nested If blocks, the Select Case block is often a better alternative.