

Introduction to Programming using Visual Basic
CS0004
Pop Quiz 2 - Solutions

Name _____

Pitt ID _____

Instructions: You have 15 minutes to answer these questions as clearly and precisely as you can. Good Luck!

1. Name the 6 relational operators we discussed:

>, >=, <, <=, =, <>

2. Name the 3 logical operators used to join relational operators together:

Or, And, Not

3. Evaluate the following statements (show all work):

a. "Joe" < "joe" And (Not (5 >= 2))

----- True -----	----- True -----	
	----- False -----	
		=> True And False = False

b. (((50 < 100) Or (5 <> 10)) And "jack" = "Jack")

----- True -----	----- True -----	----- False -----	
----- True -----			=> True And False = False

4. What is the difference between a *Sub Procedure* and a *Function*?

A function returns a value. A Sub Procedure is just a block of code that returns nothing. Examples of a function are "calculate interest rate" and "convert Celsius to Fahrenheit". Examples of Sub Procedure would be "fill list box with selected numbers" and "disable all buttons".

5. Convert these nested If statements into a If-ElseIf-Else statement:

```
If var1 > var2 Then
    ... block 1...
Else
    If var1 < var3 Then
        ...block2...
    Else
        ...block3...
    End If
End If
```

----- Conversion -----

```
if var1 > var2 Then
    ... block 1...
Elseif var1 < var3 Then
    ...block2...
Else
    ...block3...
End If
```

6. Convert the following Do While Loop into a For Next Loop

```
Dim x As Integer = 1
Do While x <= 5
    lstOutput.Items.Add(x)
    x += 1
Loop
```

----- Conversion -----

```
Dim x As Integer = 0
For x = 1 To 5
    lstOutput.Items.Add(x)
Next
```