



First Tutorial (Monday or Tuesday)

Activities In Tutorial

- TA demos:
 - Used for more complex features (typically multiple steps are required).
 - The tutorial instructor will show on the projector/instructor computer each step for running the feature in Excel.
 - Unless otherwise specified the tutorial material will take the form of a TA demonstrating the use of features in Excel.
 - Slides titled "Lecture Review" are covered for the second time and dealing with less complex material.
 - For this reason they will only be covered briefly in tutorial.
- Student exercises:
 - Used instead of TA demos for simpler features.
 - You will have already been given a summary of how to invoke the feature and the purpose of the exercise is to give you a chance to try it out and get help if needed.

VBA tutorial notes by James Tam



Branching: Alternate Courses Of Execution
What you will know from lecture:

Branching allows for alternative courses of execution.
Each alternative executes one or more VBA instructions.
Branching can be implemented in different ways depending upon the programming language what you will have learned is variations of the IF structure.





Branches: Depending Upon The # Of Images IF -Then Version

```
' First program (IF-THEN)
Sub ifThenExample()
   Const CUT_OFF As Long = 2
   Dim numShapes As Long
   numShapes = ActiveDocument.InlineShapes.Count
   If (numShapes > CUT_OFF) Then
        MsgBox (">" & CUT_OFF & " pics in active Word doc")
   End If
   MsgBox ("Branching structure over: End program")
End Sub
```

VBA tutorial notes by James Tam

Branches: Depending Upon The # Of Images IF -Then, Else Version ' Second program (IF-THEN, ELSE) Sub ifThenElseExample() Const CUT_OFF As Long = 2 Dim numShapes As Long numShapes = ActiveDocument.InlineShapes.Count If (numShapes > CUT_OFF) Then MsgBox (">" & CUT_OFF & " pics in active Word doc") Else MsgBox ("# pics didn't meet the cutoff of " & CUT_OFF & _ " pics " & " required ") End If MsgBox ("Branching structure over: End program") End Sub VBA tutorial notes by James Tam























Second Tutorial (Wednesday or Thursday)

Open Tutorial No new teaching will occur but the TA will be available for help. During this "Open Tutorial" Any CPSC 203 student can ask for help and not just the students who are registered in a particular tutorial. The purpose is to provide extra help because the next workbook exercise is the first one in which you need to write a program from scratch.