**Python for Everyone: Notes**

**Chapter 3: Conditional Execution**

* Comparison operators
  + Boolean expressions ask a question and produce a Yes or No result which we use to control program flow
  + Boolean expressions using comparison operators evaluate to True / False or Yes / No
  + Comparison operators look at variables but do not change the variable
  + Python / Meaning: < less than, <= less than or equal to, == equal to, >= greater than or equal to, > greater than, != not equal
  + = is used for assignment
* Indentation
  + Increase indent: indent after an if statement or for statement (after:)
  + Maintain indent: to indicate the scope of the block (which lines are affected by the if / for
  + Reduce indent: back to the level of the if statement or for statement to indicate the end of the block
  + Blank lines are ignored – they do not affect indentation
  + Comments on a line by themselves are ignored with regard to indentation
* Two way decisions
  + Sometimes we want to do one thing if a logical expression is true and something else if the expression is false
  + It is like a fork in the road- we must choose one or the other path but not both
* Try / Except structure
  + Surround a dangerous section of code with try and except
  + If the code in the try works, the except is skipped
  + If the code in the try fails, it jumps to the except section