Introduction to programming

## Understanding programming – Exercises

### Exercise 1 – fix\_hello.py

Your manager has asked you to investigate an error with a program that greets users when they logon to their system. The program, listed below, is producing a syntax error.

**print** "Hello User

**print** "Welcome to the corp network";

Fix the program so that it displays the correct message and save this in your **Week 1** folder as **fix\_hello.py**

### Exercise 2 – convert\_text.py

You can do other things with text like transform it to all upper or lower case in Python. For example:

**print** "i am loud"**.**upper()

Will produce “**I AM LOUD**” as the output.

Try converting the following text to upper or lowercase:

"I Should Be all Uppercase"

"I Should Be all Lowercase"

You will need to determine how to convert the text to lowercase. Save your program in your **Week 1** folder as **convert\_text.py**

### Exercise 3 – maths.py

Python can be used as a calculator. Copy and run the below program. Try and determine what all of the symbols are doing with the numbers based on what the output is.

*# What do the different symbols do?*

**print** 2 **+** 2 *#*

**print** 12 **-** 2 *#*

**print** 3 **\*** 3 *#*

**print** 3 **\*\*** 3 *#*

**print** 12 **/** 3 *#*

**print** 12 **%** 3 *#*

Save the file as **maths.py**. You can put your notes / thoughts after the **#** symbols.

### Exercise 4 – calculation.py

Python can also be used to display the results of calculations. Your manager gives you a Python sum which he expects the result to be seven but he gets a different number:

**print** 2**+**10**\***2**-**10**/**2

Can you determine the result of the **print** statement? You can copy the print statement into a program in Atom. What did you get as the answer? Why is the answer not 7? Save your program in your **Week 1** folder as **calculation.py**