# Introduction to programming

## Understanding programming – Lab

### 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**