**Lab-W02**

The purpose of this worksheet is to re-familiarise yourself with developing Python code. This

worksheet will not use classes and will serve as a light revision of last year’s material. As this is a

worksheet it will not be formally assessed.

We will carry out our exercises in the Linux environment. The development environment is IDLE, but feel free to explore other tools. I would advise that you create a directory for CS2513 with a subfolder for each assignment or lab. Always add a comment at the top of your file with your name and student number.

**Question 1.**

Write a Python program that contains a function that converts from Celsius to Fahrenheit or

Fahrenheit to Celsius and prints the result to the screen. The user should be prompted to

determine which kind of conversion will take place. The functions should take one argument that

represents the temperature. The function should be tested by calling it from the body of the script.

The formula for the conversion is C \* 9/5 + 32.

**Question 2.**

Write a Python program that contains a function printTriangle that prints a sequence of

characters that is n characters across and n rows tall in the form or a right angle triangle. The

function should take one argument n that represents this dimension value. The function should

print ‘o’ characters for odd rows and ‘x’ characters for even rows (see example below). The

function should be tested by calling it from the body of the script.

For n = 5 the script should produce:

o

xx

ooo

xxxx

ooooo

**Question 3.**

Write a Python script that prompts a user for 3 numbers. Write a function to check if all three

numbers are equal; if they are equal, output ‘All Equal’, otherwise output ‘Not Equal’. You may

organise your code as you please.

e.g.

1, 2, 1 => “Not Equal”

1, 1, 1 => “All Equal”