## COMP 10280 Programming I (Conversion)

## Practical Sheet 9 Tuesday, 25 October 2016

For each of the following questions, write an algorithm in pseudocode first before writing a Python program. Submit your algorithms in psuedocode as well as your Python programs.

1. Write a program that prompts the user for an integer and uses a while loop to calculate the sum of the integers up to and including that number.

Save this program as p9p1.py.

2. Write a program that prompts the user for a series of integers and, for each of the numbers entered, uses a for loop to calculate the sum of the integers up to and including that number. The program should stop when a non-positive number is entered.

Save this program as p9p2.py.

3. Write a program that prompts the user for an integer and uses a for loop to calculate the factorial of that number.

Save this program as p9p3.py.

4. Write a program that prompts the user for a series of integers and, for each of the numbers entered, uses a while loop to calculate the factorial of that number. The program should stop when a negative number is entered.

Save this program as p9p4.py.

Save this program as p9p5.py.

## Please upload your work to the Moodle site before tomorrow evening.

You should keep a copy of your programs for your portfolio.