## COMP 10280 Programming I (Conversion)

## Practical Sheet 5 Tuesday, 6 October 2020

1. Write a program that takes as input an integer and prints out a message if the number is negative (Use the if construct).

Save this program as p5p1.py.

2. Write a program that takes as input an integer and prints out whether the number is non-negative or not (Use the if ... else construct).

Save this program as p5p2.py.

3. Write a program that takes as input a floating-point number and prints out whether the number is positive, negative or equal to 0 (Use the if ... elif ... else construct).

Save this program as p5p3.py.

- 4. Write a program that takes as input an integer and prints out one of the following messages indicating whether the number is in one of the specified ranges:
  - Number is equal to 0
  - Number is greater than 0 and less than or equal to 20
  - Number is greater than 20 and less than or equal to 40
  - Number is greater than 40 and less than or equal to 60
  - Number is greater than 60 and less than or equal to 80
  - Number is greater than 80 and less than or equal to 100
  - Number is greater than 100

If the number entered is less than 0, a message should be printed out to that effect.

Save this program as p5p4.py.

5. Write a program that takes as input a string and checks whether the string entered is the name of a town or city known to the program. The towns and cities should include: Dublin, Belfast, Cork, Limerick, Derry, Galway, Lisburn, Kilkenny, Waterford and Sligo. If the name of one of these towns or cities is entered, the program should print out the string "You entered x. x is in y.", where x is the name of the town or city and y is the province (Ulster, Munster, Leinster or Connacht) in which the town or city is situated. If the string entered is not recognised, the message "Sorry, I didn't recognise that name." should be printed out. Save this program as p5p5.py.

## Please upload your work to the Brightspace site before Wednesday evening.

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