# COMP 10280
# Programming I (Conversion)

**Practical Sheet 2**
**Tuesday, 17 September 2019**

1. Write a program that uses a single `print` command with a number of arguments to print to the screen the strings "Hello," and "world." The output should include a space between the comma and the word "world". Save your programe as `p2p1.py`.

2. Write a program that uses a single `print` command with a single argument to print to the screen the concatenation of the strings "Hello," and "world." Again, the output should include a space between the comma and the word "world". Save your programe as `p2p2.py`.

3. Write a program that assigns to a variable the concatenation of the strings "Hello," and "world." and includes a space between the comma and the word "world". The program should then print out the value of this variable. Save your programe as `p2p3.py`.

4. A string in Python is a sequence of characters. You can access the characters one at a time using the *index*, an expression in square brackets. The index indicates which letter is required from the string. For example, consider the following code segment:

   ```
   animal = 'elephant'
   letter = animal[1]
   ```

   Use different values for the index and use the print command to print out the individual letters selected. Ensure that you understand the behaviour of the indexing. Submit examples of your experiementation as `p2p4.txt`.

5. In Python, a segment (substring) of a string is called a *slice*. Selecting a slice is done in a similar way to selecting a character, for example:

   ```
   animals = 'herd of elephants'
   seg = animals[x:y]
   print('Segment is:', seg)
   ```

   where `x` and `y` are replaced by integers (indexes).

   Experiment with different values of `x` and `y`. For example:

   (a) What happens when `x` and `y` are the same?
   (b) What happens when `x` is greater than `y`?
   (c) What happens when `x` is omitted?
   (d) What happens when `y` is omitted?
   (e) What happens when both `x` and `y` are omitted?

   Submit your answers as `p2p5.txt`.

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

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