# ICS3UI Assignment 2

**Problem 1** (**10 marks)** Write a Python program that inputs any positive integer (1, 2, 3,…) up to 100 from the user and outputs its corresponding ordinal number (1st, 2nd, 3rd …) as a string.

Hints:

* Input the number as a string instead of as an int. That will make it easier to access the individual digits of the number.
* To write your if-conditions, you’ll need to access the individual digits of the number. Python provides an easy way to do this. See my example program ***String Number Digits.py*.**

**Problem 2** (**10 marks)** Write a Python program that inputs the three coefficients of a trinomial, *a, b* and *c*, and then outputs the trinomial as you would write it on paper.

Example 1: if the user enters *a* = -1, b = 3, c = -4, then the program would output the   
string -x2 + 3x – 4

Example 2: if the user enters *a* = 2, b = 0, c = 5, then the program would output the   
string 2x2 – 5

**Problem 3** (**20 marks)** Write a Python program that inputs four ordered pairs (x1, y1),   
(x2, y2), (x3, y3) and (x4, y4), and outputs whether the resulting quadrilateral is a square,   
a rectangle, a rhombus, a parallelogram, a trapezoid, a kite or just a plain, boring quadrilateral.

Hints:

* To test your program, use Geometers Sketchpad to come up with ordered pairs that form each of these shapes. Then use those as inputs to your program.