# Worksheet 6 - Methods

5th March 2020

This week, we're going to learn some of the in-built python methods

# Section 1

1. Write a function so that when given a string, you return that string as upper case.
2. Write a function which takes in a letter, and makes all capital letters lower case and all lower case letters capitals.
3. Write a function which takes an array arr, a variable var and a position pos, inserts var at position pos in array arr, and returns the array.
4. Write a function which takes an array, reverses it, and then converts it to a single string
e.g. ['h','e','l','l','o'] --> "olleh"
5. Write a function which goes through an array, and checks if each item is a letter. It should return this as a boolean array, e.g.
['a', 'b', '1'] --> [True, True, False]
6. You're going to do some more encryption using methods! You'll be given a string str. For this string:
Convert each character to a number using ord()
For all of these numbers, add together the min, max and average values, and return
7. Write a function which takes a string, and returns an array of length 26 which contains how many times each letter occurs (where array[0] is how many 'a's there are, array[1] is how many 'b's etc...)
8. Using your last function, letter_frequency(str), return another array, which has two elements:
The first element is the most common letter
The second element is the most common letter
If multiple letters have the same frequency, pick the one which occurs first alphabetically