Week 1: Day 5 - Exercises & Practice

Today is another practice day, but we do cover more advanced functions (how to take default arguments and multiple arguments / keyword arguments, anonymous functions) and also how Python organises modules and arranges imports.

Make sure you have tried the Rosalind exercises from Day 4 if you have not already done so. Definitely do (4) because the GC content exercise is a good checkpoint of your progress.

1. https://rosalind.info/problems/dna/

2. https://rosalind.info/problems/rna/

3. https://rosalind.info/problems/revc/

4. https://rosalind.info/problems/gc/

5. Write some greeter functions
      a. to take arbitrary number of names and print out greeting messages
      b. to take arbitrary numbers of messages and print them out

6. Write some anonymous functions with the keyword lambda and try them out
      a. for example, to add, subtract, or multiply numbers

7. Write a basic module (script with collection of functions) and import it in another script
      a. call some of the module's functions
      b. add an if __name__ == '__main__': statement in your module script and add some
function calls in there to check that you understand how this isolates code from being imported

8. Do the translate rna to protein problem on Rosalind: https://rosalind.info/problems/prot