***These assessments can be open ended so you will need to just decide on how far you can get in the time given and taking into account you have 4 other modules.***

Worth 50% in total split into 4 tasks done in the same Jupyter notebook.

The PDF will be updated every time a task is added.

**Marking Scheme:**

It is important that your submission provides direct evidence of each of the items listed in each category (***add a file with research and your workings***).

* 25% Research - Show everything you look up (or at least the stuff you use). Track what you're googling. Put that in. Demonstrate you found good references, not just for the problem but for your level of understanding of the problem.
* 25% Development - Well commented code. Actual code is worth 20%(ish) with 5%(ish) going to structure and commenting. **This is not the main bulk of the assessment.**
* 25% Consistency - Provide a really good git commit history.
* 25% Documentation - Explanation, Read me, commit history.

**Task 1:**

Write a python function called counts() that takes a list as input and returns each item in the list as keys and the number of each item as the value. No modules.

Example: from list = ["A", "A", "B", "C", "A"] to dictionary = {"A": 3, "B": 1, "C": 1}.