Home Exercise

- 1. Write a Python script in order to complete the task detailed in the PDF file named "Forter Challenge name count.pdf".
- 2. Go online and read a little bit about <u>Docker</u>, then answer the following questions:
 - a. What is a Dockerfile?

What does the following Dockerfile instructions mean:

- i. FROM
- ii. CMD
- iii. RUN
- iv. ENTRYPOINT
- b. What is a docker image?
- c. What is a docker container?
- 3. Create a Dockerfile that executes the Python script you created in step #1.
 - a. Include necessary instructions in the Dockerfile such as base image selection, installation of Python dependencies, and copying the Python script into the container.
 - b. Save the Dockerfile in the same directory as your Python script.
- 4. Build the Docker image using the "docker build" command.
 - a. Make sure that executing the following command, executes your python script within the docker image: docker run <IMAGE_NAME>
 - b. Verify that the Docker container executes the Python script as expected and produces the desired output.
- 5. Once you have successfully created and tested the Docker image to execute your Python script, submit the following:
 - a. Dockerfile
 - b. Python script file
 - c. Any additional instructions or documentation related to building and running the Docker image