# TASK – WEEK 7

## TASK: Work with context managers, file operations, and modularization in Python

## 1. File filtering with context manager

- Create a text file named 'students.txt' containing student names, one per line.  
- Use a context manager to open and read the file.  
- Create a new file 'filtered.txt' and write only the names that start with a vowel (A, E, I, O, U).

## 2. Reverse file content

- Create a file 'log.txt' with at least 5 lines of text.  
- Open the file using a context manager and read all lines.  
- Reset the file pointer.  
- Write the same content **reversed** (line order) to a new file 'reversed\_log.txt'.

## 3. Modularize student report generator

- Create a Python module named ‘report.py’ containing a function ‘generate\_report(data: dict)’.  
- The function should accept a dictionary of student names and scores, and return a formatted string report.  
- In a separate file, import the function and call it with data such as:  
 ‘{'Lisa': 85, 'Bart': 72, 'Homer': 91}’  
- Only include students who scored 80 or above in the final report.  
- Use string formatting and sorting to structure the output.

## Note

- Tasks are not mandatory; they are voluntary.  
- Tasks are not time-limited when they need to be done – ideally, they should follow up on a weekly presentation, but not necessarily.  
- Saved .py files send to emails:  
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