Lab 7

1. (0.25) Write a bash script that takes any number of usernames as command line arguments. You must validate that the provided arguments are existing usernames. The script will print the total number of processes per valid user once a second. If no arguments are given, the script should print a message and then terminate.

2. (0.25) Write a bash script that retrieves all the home folders of the exam and practice accounts on the system and reports all such folders that have any permissions set for group or for others as well as the student username (not the account username) that those folders belong to.

3. (0.25) Write a bash script that receives as command line arguments a character sequence S without whitespaces followed by any number of additional arguments. For each additional argument:
    - if the argument is a regular file, the script will report if the file contains the sequence S
    - if the argument is a folder, the script will report if it contains an item (recursively) with the name equal to the character sequence S (where item can be a file, folder, link, etc)

4. (0.25) Write a bash script that receives as command line arguments any number of triplets like D, N, M where D - folder name, N, M - integers. The script will print the folder names that contain at least N and at most M regular files (recursively). The script will check if the given folders exist. The script will check if N < M and will print a message otherwise.

5. (0.25) Write a bash script that receives as a parameter a number N and continuously reads strings from standard input. For each read string, if it is a regular file, the script prints its name and number of lines and adds the number of lines to a total. The script stops reading strings after the total number of lines from files exceeds N and prints the first N lines from the concatenation of the read filenames.