Assignment 4

Description:

Program takes as input the Amount of People that need to use the WC and by using multi-threading controls the priority of the entrance and exit in the WC.

Compilation:

Program uses the pthread.h library so the linker of the compiler (gcc) needs specific arguments to compile.

- -lpthread for pthread.h

Run make command in terminal to make executable file.

- First: compiles separately the file
  → WC.c that uses pthread library
- Creates a second file "WC.o" which is "WC.c"
- Creates an executable file "WC"

Test Cases:

To test the program we are using the following files :

- input_1.txt
- input_2.txt
- input_3.txt
- input_4.txt

Execution:

The executable file takes as Arguments the maximum capacity of the WC so it can be checked in the test files.

So the command to execute the program is :

./WC <max_capacity_of _WC> <test_file