

## Assignment 3

### Description:

Program takes as input the amount of Passengers that want to Ride the Train and places them in Groups of Passengers with the right Amount so the do not Exceed Capacity of Train.

### Compilation:

Run make command in terminal to make executable file.

- First: compiles separately the file  
→ mysem\_train.c that uses pthread library
- Creates a second file “train.o” which is “train.c”
- Creates an executable file “train”

### Test Cases:

To test the program we are using the following files :

Random Numbers:

- input\_1.txt
- input\_2.txt
- input\_3.txt
- input\_4.txt

### Execution:

The executable file takes as Arguments the Capacity of the Train.

So the command to execute the program is :

`./train <max_capacity> <test_file`