Assignment 5 (Files and Methods), Due date is Thursday March 3rd, 11:59 PM

Part1 (**15 Points**): Write a Java program for a robot that reads tasks from a log file (logFile.txt) that have been already conducted by the robot so far. The tasks are displayed on an LED screen that is attached to the robot's head. Tasks are displayed on the screen sorted by their priority. Priority is represented as an integer number from 1 to 3 such that 1 for highest and 3 for lowest. Note that the log file could contain an arbitrary number of tasks stored in the following format (5 lines for each task):

- ✓ Task description (only one line),
- ✓ time (when the task was received),
- ✓ duration (how long did it take to complete the task in minutes)
- ✓ Date of the task (MM/DD/YYYY)
- \checkmark The priority of the task (1 to 3)

The program first prompts the user to enter a **password** that must be compared against a pre-stored list of valid passwords saved in a text file (**passwords.txt**). If the entered password is found in the password's file, then the program reads the tasks from the logfile.txt. Otherwise, the program notifies the user about the incorrect password and terminates. The password file has an arbitrary number of passwords. **Example:**

The password's file (passwords.txt)

A*bUwS#@2X19

Pass*K\$e8Y TokenT2w

logFile.txt	The output on the screen (Must be in the same format)
Make a fresh coffee	Number of the tasks 4.
06:31 AM	
7 Minutes	Task 1:
06/29/2015	description: Call 911, heart attack
3	Time: 06:57 AM
Get me the phone	Duration: 0.35 Minutes
6:39 AM	Date: 06/29/2015
0.25 Minutes	Priority: 1
06/29/2015	
2	Task 2:
Bring me today's newspapers	description: Get me the phone
06:40 AM	Time: 06:39 AM
1 Minutes	Duration: 0.25 Minutes
06/29/2015	Date: 06/29/2015
2	Priority: 2
Call 911, heart attack	
06:57 AM	Task 3:
0.35 Minutes	description: Bring me today's news papers
06/29/2015	Time: 06:40 AM
1	Duration: 1 Minutes
	Date: 06/29/2015
	Priority: 2
	Task 4:
	description: Make a fresh coffee
	Time: 06:31 AM
	Duration: 7 Minutes
	Date: 06/29/2015
	Priority: 3

Note: Please use the attached files. Do not create new files.

Assignment 5, CS II

Part2 (15 Points):

Write a java program that stros 100 random integer numbers between 1 and 500 in a file "intData.txt"; then the program is expected to perform all the following tasks.

- 1- Create a static method/function to generate and store the target numbers in the file.
- 2- Create a static method/function to print all prime numbesr.
- 3- Create a static method/function to read "intData.txt" and store all odd numbers into a new file "oddNumbers.txt" and all even numbers into a new file "evenNumbers.txt".
- 4- Main method to call all function

Note:

o Forgetting to submit the work is not a professional excuse. Please avoid this approach. A better strategy is to start working as soon as possible and plan to show your work to your instractor if need be before the deadline for some recommendations and advice.