

Assignment 2

IMPORTANT:

1. You are NOT allowed to bring in ANY material in the lab. You can bring white sheets for rough work.
2. You are NOT allowed to discuss with your lab mates. If you get a warning from the TA then you will not be allowed to submit your assignment.
3. You are NOT allowed to open email during lab. If you do so then you will not be allowed to submit your assignment.
4. You should not ask about the following things:
 - a. How to use Eclipse? – Practice!
 - b. How to upload assignments? – Learn it!

Q1: You are asked to record the information of residents living in a city. Residents must have their age, address, sex, and name registered. Write a code that fetches:

- i) An authorized female wants to know how many people are elder than her.
- ii) An authorized male wants to know the oldest male person's age.
- iii) An authorized teenager wants to know the name of a person given his or her address.

Treat residents as objects. Treat the group of residents as the mainline class. The information has to be accessed from a dat file. None of the residents can see the entire file. They can only view their part of the information. However, resident information **cannot** be accessed *directly* by anybody (think about using encapsulation: private vs public). Objects who are authorized can only request for information.

The information that has to be in the file is given below:

Mary Robinson

Authority yes

female

32

B-14 James, Avenue

Dorothy Dickson

Authority no

female

53

C/34, Reed Street

Charles Crusoe

Authority no

male

39

B-19 James, Avenue

Peter Jackson

Authority yes

male

14

17/24, Park Street

Joe Robinson

Authority yes

male

24

B-14 James, Avenue

Submission guideline:

Submission 1: doc file with full comment of every code statement (within the first 2 hours)

Submission 2: java files after you edit in Eclipse (after submission 1)