Seneca College

October 30, 2019

Applied Arts & Technology School of Computer Studies

JAC444

Final Code and Demo Date: Nov 08, 2019

Workshop 6

Notes:

- **i.** Each task should be presented during the lab, demo worth 70% of the workshop marks and code uploading worth the other 30%.
- **ii.** Make sure you have all security and check measures in place, like wrong data types etc., implement proper Exception Handling techniques
- **iii.** Given output structure is just for student to have a glimpse what the output can look, students are free to design the output better in any way.
- iv. The final code as zip should be submitted by the midnight to avoid late penalties which are 10% each day late.
- **v.** The workshop will be marked as follows:
 - **a.** Proper naming of the class/s expected.
 - **b.** Proper documentation for all the class/s, method/s etc. used.
 - **c.** Clear naming for the variables, class/s, methods expected.
 - **d.** Output should be clear, and sentences should make sense.
 - e. Clear all debugging fields, data, line etc. used in the code.

Other inputs can be given during demo, so make sure you test your program properly.

Task 1: The following workshop is based on some research as well. Research Part:

During the lecture and in the workshop 4 you have practiced different concepts on

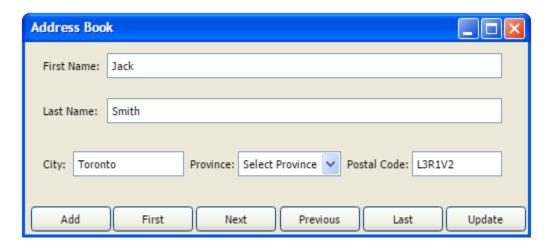
- How to read a file.
- How to write a file.
- Mostly everyone has practiced FileReader or FileWriter, FileInputStream or FileOutputStream, Buffered Readers etc.
- This particular workshop required you to first search on RandomAccessFile,
 - Advantages.
 - Where to use it.
 - o How to use it.

Once you have read about the advantages and disadvantages of the RandomAccessFile in java then you can start the coding for the workshop.

Coding Part:

Write a program that stores, retrieves, adds and updates addresses as shown in the figure below. Use *random access file* for reading and writing an address. When the program starts your files should contains minimum 5 proper records [make sure the added records are proper no some random strings and/ or postal code etc].

Hint: Use fixed-length string for storing each attribute in the address.



Deliverables: there will be two different deliverables for this workshop.

- 1. A word document includes your findings about Random Access File. [1.5%]
 - a. Advantages
 - b. Disadvantages
 - c. Usage.
 - d. Syntax.
 - e. Constructors
 - f. Methods

Note: Also include your references from where you search.

2. Code for the application.

[3.5%]

Upload both in one zipped or Rar or 7zip or jar file formats on the blackboard.