

Seneca College

April 4, 2018

Applied Arts & Technology

SCHOOL OF COMPUTER STUDIES

JAC444**Due date: April 10, 2018**

Workshop 10

Description:

This assignment lets you practice RMI in Java and includes concepts such as Networking, RMI, and Serialization.

Give a solution to the following problem (RMI System for car registration):

A `Car` object is described by: model, color, mileage, and plate. All the values are given, except plate which is undefined.

The plate value is calculated by the RMI server. The server algorithm for calculating the car plate is simple: the server invokes `hashCode()` for the `Car` object.

The client must print `Car` object and send it to the server for car registration. Once the car is registered, the client must print the `Car` object again, this time with its assigned plate number.

Hints: You can assume that the client and server run on the local machine.

Marking criteria:

Please note that you should:

- a- have appropriate indentation.
- b- have proper file structures and modularization.
- c- follow Java naming conventions.
- d- document all the classes properly.
- e- not have debug/useless code and/or file(s) left in assignment.
- f- have good intra and/or inter class designs.

in your code!

Task: Developing and running the desired solution: **5 marks**.

Deliverables:

You are supposed to hand in your solution (run the solution and/or answer related Qs) in labs 11.

In case you don't hand in/run the required task in the lab, you could submit your final solution (described below) but note that there would be a 50% penalty!

In this case, you should zip *only the Java files* to a file named after your Last Name followed by the first 3 digits of your student ID. For example, if your last name is **Savage** and your ID is **354874345** then the file should be named **Savage354.zip**. Finally email your zip file to me at reza.khojasteh@senecacollege.ca

Reminding Some Important Notes:

- Each assignment should be submitted before/on its due date. The (additional) deduction for late submission will be 10% each day or part of it. No assignments will be accepted after week 13.
- All the assignments should be done satisfactorily to pass the course. Moreover, to obtain a credit in this course, a student must achieve a weighted average of 50% or better on workshops.
- Students are encouraged to talk to each other, to the instructor, or to anyone else about any of the assignments, but the final solution may not be copied from any source.