Seneca College of Applied Arts & Technology **March 25, 2019**

SCHOOL OF INFORMATION & COMMUNICATION TECHNOLOGY

JAC444 **Due date: April 4, 2019**

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 and Tasks:
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 and Important Notes:
You are supposed to show up AND hand in your solution in person (run the solution and/or answer related Qs) in lab 12.

In case you don't show up OR hand in/run the required task in the lab, you could submit your final solution (described below) on the same due date but note that there would be a 50% penalty! Late submissions would result in additional 10% penalties for each day or part of it.

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

Remember that you 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.