Seneca College of Applied Arts & Technology   **December 6, 2021**

SCHOOL OF INFORMATION & COMMUNICATION TECHNOLOGY

JAC444   **Due date: December 14, 2021**

Workshop 11

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 (**you should submit your source codes - just individual .java files added with screenshots which demonstrate the way your code runs**): **5 marks**.

Deliverables and Important Notes:
- You are supposed to **submit your solution online on Bb by the end of the day on Tuesday, 14th of December, 2021.)**

- **Exceptionally for this workshop, and due to the college's final marks' deadline, there would be a 100% penalty in case you submit later than Tuesday, 14th of December 2021!**

- Please note that you would be allowed to **submit just once**, so please **be super careful and double check before you hit submit.**

- 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 sources**.