

## 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, 19<sup>th</sup> of April, 2022.)
- Please note that you would be allowed to submit just once, so please be super careful and double-check before you hit submit.
- There would be a 20% penalty for each day (or part of it,) in case you submit late!

- 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.**