

Distributed Systems

Exercise Sheet 2

Klingemann, SS 2022

Voluntary Java-Exercise (without assessment)

Java-Exercise 5

This task extends Exercise 2 from Sheet 1.

Implement a class `Car`, which contains the private attributes `colour`, `horsepower` and `weight`. The class should contain exactly the following methods:

- A constructor with three parameters that is initializing the three attributes with the corresponding parameter values.
- A method `print` that is displaying the values of the three attributes on the screen.

Create an interface `Display` that contains just a method `print`. Let the classes `Publication` and `Car` implement this interface.

Write an appropriate main-function to test your classes. Use for this purpose an array of type `Display`. Assign objects of the classes `Publication`, `Book` and `Car` to the components of the array. Iterate over the array and call on each object the method `print`.

Java-Exercise 6

This task extends Exercise 5.

Implement an application that writes the array of type `Display` (including the contained objects) into a file on the hard disk.

Implement another application that reads the array of type `Display` (including the contained objects) from the file on the hard disk.