Exercises:

- 1. Name three examples of aggregations and specializations found in the reality.
- 2. Implement the classes *Date* and *Appointment*. They should be related to each other. Which relation did you choose? Document your idea in a clear manner.
- 3. Implement the class hierarchy with *Car*, *Bus*, *VintageCar* etc. as far as needed (as far as you wish:)). For following tasks use your freedom and fantasy, there are many ways to implement them and there is basically no wrong solution. If appropriate you can also apply @Overrides.
 - a) Create a class diagram. Just do it by hand with a pencil, which shows the class hierarchy as far as you wish. Hint: assume, that you have to modify the diagram (erasing and redrawing of architectural parts), to adapt it to the changes you have/want to do.→ This is just the reality using UML!
 - b) Additionally add the idea of *Tyres* in your design. Assume, that a Car can have multiple *Tyres*.
 - c) Implement the method *getPressure()*, which retrieves the pressure of *Tyres*.
- 4. What is array-covariance? Explain the term and also the problems with covariant array with examples. Feel free to consult other online sources to sharpen your understanding of the concept.

Remarks:

As always.