Class 7

- 1. What is a Java bean?
- 2. Are Design patterns are language dependent?

3.

- Create a singleton which is used to write logs into a file.
- The singleton will have a method which gets a String and write it into the file (name the output file: log.txt).
- Create another class which gets the following input (using Scanner) from the user:
 - o Name
 - o Age
 - Address
 - o Phone number
- Write each input into the log file separately (in the singleton).

- 4. Using Factory pattern
 - Create an interface named Drivable with a void method drive()
 - Create 3 classes implementing Drivable
 - o Fiat
 - o BMW
 - Porsche

Each class will print the following inside drive() method:

- o Fiat 100
- BMW 140
- Porsche 180
- Create a CarFactory class
- Create a static method getCar() which will get a String argument which can be Fiat / BMW / Porsche and will return an instance of an object accordingly.
 - ** In case a different String is send throw an exception.
- Create a FactoryTest class which will create a car object and call drive() method.

- 5. Clone Selenium Webdriver project https://github.com/SeleniumHQ/selenium
- 6. Create a new Java project (any) and upload it to Github

Question #	What to send me?
5	Screenshots of your local folder containing the above repository
6	Link to your repository

7. What is Maven repository and what is it used for?

CHALLENGES:

8.

- Read about threads
 https://docs.oracle.com/javase/tutorial/essential/concurrency/procthread.html
- Write a thread safe singleton
- 9. Name 3 more Java design patterns and write in a few words what they are used for.
- 10. Name 2 more project management tools which can be used in Java.