Summer 2018 CS7140 HW2

1. (25 points) [Literate Programming] Express the chosen class file(s) as a literate program (LP). The LP version should exemplify the OOP design by contract principles.
2. (25 points) [Assert] This part of the home work is focussed on gaining some experience with the use of Java asserts. Thoroughly document the chosen class file(s) using Java assertions for invariants, requires, ensures, assignable, … .
3. (25 points) [JUnit or TestNG] This part of the home work is focussed on systematic testing of the chosen file(s). Use a JUnit Plugin or a TestNG plugin (in Eclipse, or Intellij Idea).
4. (25 points) [FindBugs or PMD] This part of the home work is focussed on gaining experience with the use of a static source code analysis tools. Examine closely the reports produced by the tool. Which of the items do you agree with? How did you resolve the issues?
5. (00 points) Please maintain a journal for this homework. Submit a summary.