ASSIGNMENT 6

Course: Design Patterns and Software Testing Marks Allocated: 14%

Semester: Winter 2018

INSTRUCTIONS:

• Create a simple application which uses at least five different design patterns.

The application should be tested using JUnit.

TASK

• Design Patterns (50% marks)

- Create a simple application which uses at least five different design patterns. A console application is sufficient.
- o The design should use at least 5 design patterns with justification.
- You may improve an existing java application using design pattern.
 However, all the deliverables must be your original work.
 - clearly indicate the pattern used in comments.
- o In a word document, describe design patterns used in your application and the reason of choosing that design pattern.
- Create a Class diagrams for the entire application clearly showing the use of design patterns (attach to Word document)

Software testing (50% marks)

- o To the Word document add a table of Test Cases, this test cases will be used to test your application.
- o Create Junit test that uses the above test cases.
- Test your application
 - o In the word file, add screenshot showing your test results.

DELIVERABLES

- The source code as a zip file clearly indicate patterns used in comments.
- Description of design patterns with justification (Use "why use this one instead of others?" type of argument to explain your selection of a pattern)
- Class diagrams clearly showing the use of design patterns (in Word doc).
- A table of test cases used to test your application (in Word doc).
- Screenshots of your test results (in Word doc).