**BCDE321 – Advanced Programming**

**Self-marking Sheet of Assessment 3**

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The link of your online repository for version control

**https://github.com/j-vanolst/BCDE321-Assignment3-2020**

Marking rubric

Part A – Apply Design Patterns & Refactoring Process (25 \* N marks where N === 2)

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| **Task** |  | | | **Marks** |
| 1. Identifying the target block of code with design problems, which intends to be modified in your target solution of Assessment 2 (3 \* N marks) | | | |  |
| 1.1. The locations (i.e., code reference) of the target block of code (1 \* N marks) | 1 | 1 mark | 0 mark | 2 |
| Correct | No attempt or completely incorrect |
| 1.2. The (before-design-pattern) class diagram of the target block of code (2 \* N marks) | 2 marks | 1 mark | 0 mark | 4 |
| Correct | Roughly correct with many missing/incorrect details | No attempt or completely incorrect |

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| 2. Development of testing code (4 \* N marks) |  |

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| 2.1. Developing a set of testing code for all external behaviours of the target block of code in your target solution of Assessment 2. All tests should be able to be triggered through running a single Python file. And your testing code developed needs to pass PEP8 check. (2 \* N marks) | 2 marks | 1 mark | 0 mark | 4 |
| Correct, meet the specification, good quality | Fair attempt | No attempt or completely incorrect |
| 2.2. Using coverage package to generate the HTML-version report to demonstrate your developed testing code has **100% branch coverage** for the target block of code (2 \* N marks) | 2 marks | 1 mark | 0 mark | 4 |
| Correct and meet the specification | Fair attempt | No attempt or completely incorrect |
| 3. Design (3 \* N marks) | | | | |
| 3.1. The name of the design pattern intended to be applied (1 \* N marks) |  | 1 mark | 0 mark | 2 |
| Correct | No attempt or incorrect |
| 3.2. The (after-design-pattern) class diagram of the target block of code after your proposed modification. All the components in the design pattern structure stated in our design pattern textbook must be explicitly labelled in your (after-design-pattern) class diagram. (2 \* N marks) | 2 marks | 1 mark | 0 mark | 4 |
| Correct and meet the specification | Roughly correct with  many missing/incorrect details | No attempt or completely incorrect |

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| 4. Refactoring by design patterns (11 \* N marks) | | | | |
| 4.1. Applying the design pattern proposed. Your solution needs to pass PEP8 check. (10 \* N marks) | 10 marks | 5 marks | 0 mark | 20 |
| Correct, meet the specification, good quality | Fair attempt with significant issue | No attempt |
| 4.2. Version control via an online repository (1 \* N marks) | Github link in document – can see clear progression from beginning of refactor | 1 mark | 0 mark | 2 |
| Correct | No attempt or completely incorrect |
| 5. Evaluation (4 \* N marks) | | | | |
| 5.1. Demonstrating that the refactored code can still pass the same set | 2 marks | 1 mark | 0 mark |  |
| of tests developed at Task 2 above (2 \* N marks) | Fully pass | About half of them pass | Zero or very few pass | 4 |
| 5.2. Using coverage package to generate the HTML-version report to demonstrate that the same set of tests can still have 100% branch coverage for the refactored code. (2 \* N marks) | 2 marks | 1 mark | 0 mark | 4 |
| Correct and meet the specification | Fair attempt | No attempt or completely incorrect |
|  |  |  | Total Marks | 50 |