**BCPR301 – Advanced Programming**

**Assessment4 Marking Sheet**

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# The compulsory (i.e., ZERO mark if not being provided):

1. You MUST supply a filled self-marking sheet to indicate how many marks you think you can get for each part based on the marking guide provided below.

# Your repository link:

<https://github.com/ism0080/Python_badsmell_PR301>

# Marking guide (max 13 \* N marks in total where N = 4):

1. Smell detection (4 \* N marks)
2. Identification of N bad smells in the programs provided. For the sake of learning, please try to identify **different types of bad smells**. (N marks)
3. The location of each bad smell identified (N marks)
4. And discussion on the reasons why you think that the ones you identify are bad smells in a concise fashion. Please do not simply copy general reasons from somewhere and paste them in your submission (N marks)
5. And brief discussion on the refactoring strategies/ approaches you are going to use to remove each bad smell (N marks)

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| --- | --- | --- | --- | --- |
| Bad Smells | Identification of bad smells (1 Mark) | Location of bad smells (1 Mark) | Reasons why bad  (1 Mark) | Strategies  (1 Mark) |
| Duplication Smell (PyGal) | 1 | 1 | 0.5 | 0.5 |
| Duplication Smell  (Pickle) | 1 | 1 | 0.5 | 0.5 |
| Switch Statement Smell | 1 | 1 | 1 | 0.5 |
| Comment Smell | 1 | 1 | 1 | 0.5 |

1. Tests development (4 \* N marks)
2. To develop a set of tests for the methods/ classes/ modules/ packages encompassed by the bad smells you previously identified (3 \* N marks)
3. Please also use coverage package to generate reports in order to show your code branch coverage **== 100%**. And all tests should be able to be run together by running a single .py file (N marks)

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| Bad Smells | Develop Test Coverage (3 Marks) | Coverage Package (1 Mark) |
| Duplication Smell  (PyGal) | 2 | 1 |
| Duplication Smell  (Pickle) | 2 | 1 |
| Switch Statement Smell | 2 | 1 |
| Comment Smell | 2 | 1 |

1. Refactoring (5 \* N marks)
2. Identifying the worst smell and the reasons why it is the worst one (N marks)
3. Version control via a remote repository and testing (N marks)
4. Modification to remove the worst smell and PEP8 validation (2 \* N marks)
5. Effectively evaluations (N marks)

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| --- | --- | --- | --- | --- |
| Bad Smells | Identification of worst smell(1 Mark) | Version Control (1 Mark) | Remove bad smell and Pep8 validation  (2 Mark) | Evaluations  (1 Mark) |
| Duplication Smell  (PyGal) | 1 | 1 | 2 | 0.5 |
| Duplication Smell  (Pickle) | 1 | 1 | 1.5 | 0.5 |
| Switch Statement Smell | 1 | 1 | 1.5 | 0.5 |
| Comment Smell | 1 | 1 | 2 | 0.5 |