**BCED321 Advanced Programming**

**Assessment Two**

**Practical Assessment 2**

Students:

John Quiamco

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|  | Component | Location | Used by your peers (2 mark) | Robustness (2 mark) | Complete and well  implemented, i.e.,  “What is clever  about this?” (2  mark) | Marks |
| 1 | Support command-line arguments | See my\_cli.py: line 138 to 220 and cli.py | 2 marks | 2 marks. | 2 marks. Code follows pep8 guidelines and is Pythonic | 6 |
| 2 | Has a line-oriented command interpreter based on cmd or similar package | See my\_cli.py: line 138 to 220 and cli.py | 2 marks | 2 marks. | 2 marks. Code follows pep8 guidelines and is Pythonic | 6 |
| 3 | Display command line help of available commands | See my\_cli.py: line 138 to 220 and cli.py | 2 marks | 2 marks. | 2 marks. All commands have a help command associated with them. Code follows pep8 guidelines and is Pythonic. | 6 |
| 4 | Change commands and options | See my\_cli.py: line 138 to 220 and cli.py | 2 marks | 2 marks. | 2 marks. All commands have a help command associated with them that can be accessed by typing  ? [COMMAND]. Code follows pep8 guidelines and is Pythonic | 6 |
| 5 | Extract data | See shelve\_create.py and cli.py def\_create. | 2 marks | 2 marks. | 2 marks. Data is extracted using Shelve. Code follows pep8 guidelines and is Pythonic | 6 |
| 6 | Validate data | See validate.py | 2 marks | 2 marks. | 2 marks. Code follows pep8 guidelines and is Pythonic | 6 |
| 7 | Provides object persistence / object serialization using either pickle or shelve | Shelve\_create.py | 2 marks | 2 marks. | 2 marks. Code follows pep8 guidelines and is Pythonic | 6 |
| 8 | Can load data from a file | Shelve\_create.py and def\_create. | 2 marks | 2 marks. | 2 marks. Code follows pep8 guidelines and is Pythonic | 6 |
| 9 | Can deal with file directory | PickleMaker.py and DiagramCreator.py | 2 marks | 1 mark. | 2 marks. Code follows pep8 guidelines and is Pythonic | 5 |
| 10 | Can raise exceptions and provide exception handling | See my\_cli.py: line 138 to 220 and cli.py | 2 marks | 2 marks. | 2 marks. Code follows pep8 guidelines and is Pythonic | 6 |
| 11 | Amount of checking for pre- and post- conditions of methods | See cli.py line 60 to 107. | 2 marks | 2 marks. | 2 marks. Check that file exists before proceeding. | 6 |
| 12 | Provide doctests | 0 | 0 | 0 | 0 | 0 |
| 13 | Provide unittests | 0 | 0 | 0 | 0 | 0 |
| 14 | Pretty print, i.e., displaying data in chart/ diagram, e.g., bar chart, pie chart, UML diagram, etc | cli.py defcreate and def do\_dot | 2 marks | 2 marks. | 2 marks. Code creates a class diagram. Code follows pep8 guidelines and is Pythonic | 6 |
| 15 | Can save and read data from a database, e.g., SQLite, MySQL and MongoDB | 0 | 0 | 0 | 0 | 0 |

Github: <https://github.com/joq0033/Assessment-2-2020>