# CSC8001 Assignment 1 – Marking Criteria

[100 Marks worth 20% overall]

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| --- | --- | --- |
|  | /60 | Part A |
|  | /40 | Part B |
|  | /100 | **TOTAL** |
| Comments: | | |

## Part A: Literary Scrabble [60 marks]

Part A has four supporting functions and three questions.

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| **Word Analysis** functions | |
| **Marks** | **Criteria** |
| /12 | **def create\_wordlist():** |
|  | Solution:   * Opens and reads text from file. * Strips off numbers, whitespace, punctuation and hyphens appropriately. * Returns expected result in correct format, - sorted list of words (ascending), all lower case, no duplicate words. * Effective and appropriate use of Python. * Code includes useful and appropriate comments. * Code runs without errors. |
| /8 | **def word\_match():** |
|  | Solution:   * Returns expected result in correct format. * Effective and appropriate use of Python. * Code includes useful and appropriate comments. * Code runs without errors. |
| /8 | **def word\_score():** |
|  | Solution:   * Returns correct scrabble score per wiki reference provided. * Effective and appropriate use of Python. * Code includes useful and appropriate comments. * Code runs without errors. |
| /8 | **def find\_words():** |
|  | Solution:   * Code handles single and multiple letters combinations. * Correct use of iteration to search words\_list. * Function uses helper functions word\_match and word\_score appropriately. * Returns expected result. * Effective and appropriate use of Python. * Code includes useful and appropriate comments. * Code runs without errors. |
| **Word Questions** | |
| /6 | a1 |
|  | Solution:   * Effective and appropriate use of Python. * Code includes useful and appropriate comments. * Code runs without errors. * Returns expected value |
| /8 | a2 |
|  | Solution:   * Effective and appropriate use of Python. * Code includes useful and appropriate comments. * Code runs without errors. * Returns expected value. |
| /10 | a3 |
|  | Solution:   * Effective and appropriate use of Python. * Code includes useful and appropriate comments. * Code runs without errors. * Returns expected value. |
|  | **TOTAL** |

## Part B: Intro to Pandas [40 marks]

Part B has six questions.

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| **Marks Out of** | **Criteria** |
| /6 | b1 |
|  | Code to setup of Analysis DataFrame:   * Effective and appropriate use of Pandas. * Code includes useful and appropriate comments. * Code runs without errors.   b1:   * Test of co\_df data frame returns expected value. |
| /8 | b2 |
|  | Solution:   * Effective and appropriate use of Pandas. * Code includes useful and appropriate comments. * Code runs without errors. * Returns expected value. |
| /6 | b3 |
|  | Solution:   * Effective and appropriate use of Pandas. * Code includes useful and appropriate comments. * Code runs without errors. * Returns expected value. |
| /6 | b4 |
|  | Solution:   * Effective and appropriate use of Pandas. * Code includes useful and appropriate comments. * Code runs without errors. * Returns expected value. |
| /6 | b5 |
|  | Solution:   * Effective and appropriate use of Pandas. * Code includes useful and appropriate comments. * Code runs without errors. * Returns expected value. |
| /8 | b6 |
|  | Solution:   * Effective and appropriate use of Pandas. * Code includes useful and appropriate comments. * Code runs without errors. * Returns expected value. |