# Data Structures

# Written By - <Joshua Ayyasamy>

Make your Test plan as comprehensive as possible to get a full mark.

## Menu Processing

| **Test#** | **Description of Test** | **Input Values** | **Expected Output** | **Actual Output** | **Status (Pass/Fail)** |
| --- | --- | --- | --- | --- | --- |
|  | Invalid option for menu | a | Input Mismatch Exception | Input Mismatch Exception | Pass |
|  | Invalid option for menu | 11 | Message, “Invalid Entry… Option should be a number between 1 and 7” | Message not shown, Menu displayed | Pass |
|  | Decimal value | 45.555 | Input Mismatch Exception | Input Mismatch Exception | Pass |
|  | String value | Joshua | Input Mismatch Exception | Input Mismatch Exception | Pass |
|  | Wrong option | Raven | Input Mismatch Exception | Input Mismatch Exception | Pass |
|  | Negative value not in between 1 to 7 | -90 | Message, “Invalid Entry… Option should be a number between 1 and 7” | The method did not run menu redisplayed, message not shown | Pass |
|  | Negative value not in between 1 to 7 | -6 | Message, “Invalid Entry… Option should be a number between 1 and 7” | The method did not run menu redisplayed, message not shown | Pass |
|  | Negative value not in between 1 to 7(greater than 7) | 10 | Message, “Invalid Entry… Option should be a number between 1 and 7” | The method did not run menu redisplayed, message not shown | Pass |
|  | Negative value not in between 1 to 7(nearest value) | 8 | Message, “Invalid Entry… Option should be a number between 1 and 7” | The method did not run menu redisplayed, message not shown | Pass |
|  | Negative value not in between 1 to 7(very close to 7) | 7.9999 | Input Mismatch Exception | Input Mismatch Exception | Pass |
|  | Correct value | 1 | Program will load the file content to map and display message: “Program has read the file | Program will load the file content to map and display message: “Program has read the file | Pass |
|  | Correct value | 3 | Program will display the unique words | Program will display the unique words: Dictionary has 390 words | Pass |
|  | Correct value | 6 | Set the option to ignore the articles true or false | “Ignore definite and indefinite articles has been set to true” | Pass |
|  | Correct value | 7 | Exit the program | Good bye.... hope to see you soon | Pass |
|  | Correct value | 5 | It will remove all the keys of the treemap, makes the treemap to null | Message: Program has removed all the words | Pass |
|  | Correct value | 6 | Ignoring the article will be true or false depending on it’s value | Ignoring the article will be true | Pass |
|  | Correct value | 6 | Ignoring the article will be true or false depending on it’s value | Ignoring the article will be true | Pass |
|  | Correct value | 4 | Displaying total words | Dictionary has 1508 words | Pass |

## <Testing of option 2>

| **Test#** | **Description of Test** | **Input Values** | **Expected Output** | **Actual Output** | **Status (Pass/Fail)** |
| --- | --- | --- | --- | --- | --- |
|  | String value not in the file | Apple | Word not found | Apple found 0 times | Pass |
|  | String in the file without ignoring the articles | Raven | Raven found 6 times | Raven found 6 times | Pass |
|  | Any other integer value | 34 | Word not found | 34 found 0 times | Pass |
|  | Characters | ‘’’’’’ | Characters not found | ‘”””” found 0 times | Pass |
|  | Decimal Value | 3.4 |  |  |  |
|  | Special Characters | \t |  |  |  |
|  | String in the file without ignoring the articles | Beguiling | Beguiling found 2 times | Beguiling found 2 times | Pass |
|  | Article character without ignoring the article | A | A occured 16 times | A occurred 16 times | Pass |
|  | Article character without ignoring the article | A | Characters not found | A occurred 0 times | Pass |
|  | String in the file ignoring the articles | Raven | Raven found 6 times | Raven found 6 times | Pass |

## <Displaying the number of words>

| **Test#** | **Description of Test** | **Input Values** | **Expected Output** | **Actual Output** | **Status (Pass/Fail)** |
| --- | --- | --- | --- | --- | --- |
|  | Number of words ignoring the articles | Menu entered 4 | There are 1427 words ignoring the articles | Dictionary has 1427 words | Pass |
|  | Number of words without ignoring the articles | Menu entered 4 | There are 1508 words without ignoring the articles | Dictionary has 1508 words | Pass |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## <Displaying the unique words>

| **Test#** | **Description of Test** | **Input Values** | **Expected Output** | **Actual Output** | **Status (Pass/Fail)** |
| --- | --- | --- | --- | --- | --- |
|  | Number of unique words without ignoring the articles | Menu option 3 user entered 3 | It has 390 words | Dictionary has 390 unique words | Pass |
|  | Number of unique words ignoring the articles | Menu option 3 user entered 3 | It has 390 words | Dictionary has 390 unique words | Pass |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |