Cecilia Cuffe

CPT187 – C02

Chapter 8 - Program 7

# **REQUIREMENTS**

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| **Date Submitted:** | 2/19/2023 |
| **Application Title:** | Character Analysis |
| **Purpose:** | The program will read in text from a file and analyze the characters. |
| **Program Procedures:** | Start the program. |
| **Algorithms, Processing, and Conditions:** | 1. Program calls main() function. 2. Function calls get\_paragraph() function. 3. Function creates file object 4. Function creates placeholder variable 5. Function reads in data from file 6. Function returns data from file 7. Main calls analyze\_paragraph() function 8. Function creates placeholder variables 9. Function iterates through each character in the paragraph to determine the number of uppercase, lowercase, digits, and whitespaces. 10. Function prints results |
| **Notes and Restrictions:** | The file “text.txt” must be in the same directory as the python code. |
| **Comments:** | This program makes use of the isupper() islower() isdigit() and iswhitespace() functions. |

# **USE CASE**

1. User starts the program.
2. Program analyzes text
3. Program prints results