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CPT187 – C02

Chapter 9 - Program 3

# **REQUIREMENTS**

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| **Date Submitted:** | 3/6/2023 |
| **Application Title:** | File Encrypter |
| **Purpose:** | The program will read text from a file, encrypt it based on an encoding scheme, and print the encrypted text to a new file. |
| **Program Procedures:** | Start the program. |
| **Algorithms, Processing, and Conditions:** | 1. Program calls main() function. 2. Main calls the key\_dict function 3. Key\_dict returns the encoding dictionary to main as the crypt\_key variable 4. Crypt\_key is passed to the encrypt function 5. The function opens a file 6. An empty string is generated 7. Each line in the file is read in and copied to the string 8. An empty string is generated 9. Each character in the string is iterated over 10. Whitespace characters are added to the string 11. Letters are converted using the key value pairs in the encoding dictionary 12. A new file object is created 13. The new string is printed to the new file |
| **Notes and Restrictions:** | 9-3text.txt must be in the same file directory. |
| **Comments:** | Future versions of this program may take numbers and punctuation into account. |

# **USE CASE**

1. User starts the program
2. Program generates text file.