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CPT187 – C02

Chapter 9 - Program 3

# **REQUIREMENTS**

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| **Date Submitted:** | 3/6/2023 |
| **Application Title:** | File Decrypter |
| **Purpose:** | The program will read text from an encrypted file, decrypt it based on an encoding scheme, and print the decrypted text. |
| **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 decrypt 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. A nested list of all items in the dictionary is generated 10. Each character in the string is iterated over 11. Whitespace characters are added 12. A list of keys is generated 13. A list of values is generated 14. The index of the character in the values list is determined 15. The value index is used to find the corresponding key 16. The key character is copied to the string 17. The new string is printed |
| **Notes and Restrictions:** | encrypted.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 prints text.