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Project: Milestone 1

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Base: ShawdowRoot18

Text

Description automatically generated

https://github.com/ShadowRoot18/Caesar-Cipher-Python/blob/main/Caesar.py

Features:

* Encrypt by moving letters forward
* Decrypt by moving letters back
* Removes symbols and numbers
* Space isn’t altered
* Input and output on console

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Feature 1: GUI

Graphical user interface, application

Description automatically generated

Benefits:

* Easier for the user to interact
* Input plaintext in textbox
* Output encrypted text, and can’t be altered by the user
* Buttons for different options

Information:

* Tkinter Framework
  + Comes with python

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Feature 2: Simple/Complex Encryption

Graphical user interface, icon

Description automatically generated

Icon

Description automatically generated

Benefits:

* User will have options make encryption simple or complex
* Can make it more difficult to decrypt

Information:

* Simple encryption will follow the Caesar shifting
* Complex encryption will make each letter shift differently
* Decryption will output simple encryption with 26 possible
* Decryption will output complex encryption with all possible (varies on number of letters)
* User can input key or have computer make random shifts
* The key must be less or equal to the number of letters encrypting
* The key for complex will be letters, with each letter representing a number A–>1 Z–>26

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Feature 3: Symbols, numbers, and spaces support

Icon

Description automatically generated

Benefits:

* Allows more possible characters to encrypt
* Won’t alter the original sentence

Information:

* Either replace symbols by other symbols or by special lettering
* Same encryption will be used for space and numbers