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How To Run:

Running:

- Download the main.java and Encryption.java.
- Within Java Project Folder, insert the corpus file that you would like to encrypt and get frequencies for.
- In the Encryption.java file under the method “public void runEve() throws IOException”
 - Change “corpus.txt” to the name of the corpus file name inserted in the previous step.
- Run the Program
- Enter your name

Menu Options:

- Enter 1 For Alice’s View
- Enter 2 For Bob’s View
- Enter 3 For Eve’s View
- Enter 4 to Exit Program

Entering Alice’s View:

- Enter the string you want to encrypt (no spaces)
 - Sample plaintext: “hellomynameisalice”
- Enter 1 if you want to manually choose letters to encrypt by entering 1.
 - Enter what key you would like to use for encryption.
- Enter 2 if you want to use the preloaded key “cafe” to encrypt.
- It will return the plain text Encryption and go back to the main menu.

Entering Bob’s View:

- Enter the ciphertext you want to decrypt.
 - String must have no spaces.
 - Sample decryption: mxldmgjsdnjbg
- After entering the ciphertext, it will output the decrypted message using the most updated key used in Alice’s view.
- It will return the plain text Encryption and go back to the main menu.

Entering Eve’s View:

- Displays Frequencies of Letters From Corpus File.
- It will return the plain text Encryption and go back to the main menu.