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# HOW TO RUN JACOB CLOUSE'S CIPHER FOR HM1 526
'''ENCRYPTION'''
# 1) Move this program into its own folder
# 2) Open either a GIT BASH terminal or BASH TERMINAL and navigate into the folder that contains the program
# 3) Run this program with the command: python jacob-final-cipher.py
        NOTE: if you have python2 and python3 installed use this command: python3 jacob-final-cipher.py
# 4) The first thing it will ask you for is if you want to either 'Encrypt' or 'Decrypt', type in 'Encrypt'
# 5) The next thing it will ask you for is the plaintext, enter in the message you want to encode
# 6) It should let you know that a simple subsitution cipher has been activated, then you have to enter in the
offset you want to set
        Any number between 1 and 26
# 7) It should move onto the transposition cipher, and will ask you for a unique sequence of the numbers: 1,2,3,4
# 8) After this, it will move onto the One time pad section, but this will be taken care of automatically
        This should finish and show you the One time pad key and your final Cipher Text!!
        It will make two pickle files: CIPHER.pickle and OTP KEY.pickle - keep these safe, they are your
ciphertext and key!
        A text file containing your output ciphertext will also generate
'''DECRYPTION'''
# 1) This is basically the reverse of encryption, make sure that both CIPHER.pickle and OTP KEY.pickle are in the
        same directory as the jacob-final-cipher.py script and on the same level
# 2) Open up your terminal and run the script again with either:
        python jacob-final-cipher.py
        python3 jacob-final-cipher.py
# (Again, you will need to run the second one if you have both python2 and python3 installed)
# 3) This time when it asks you what to do enter in 'Decrypt'
# 4) It will start off with the One time pad function and automatically open both your pickle files
        You shouldn't have to do anything for this step
# 5) Next it will move on to the transposition function, it will ask you to enter in that combo of 1,2,3,4
        you had previously used in the encryption step
# 6) Then it will move on to the substitution function and ask you for the offset you had set
# 7) Finally, it will print out your original plaintext you had encrypted!
        A text file containing this original plaintext will also be created.
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