import csv

import sys

#The password list - we start with it populated for testing purposes

passwords = [["yahoo","XqffoZeo"],["google","CoIushujSetu"]]

#The password file name to store the passwords to

passwordFileName = "samplePasswordFile"

#The encryption key for the caesar cypher

encryptionKey = 16

#Caesar Cypher encryption

def passwordEncrypt (unencryptedMessage, key):

#We will start with an empty string as our encryptedMessage

encryptedMessage = ''

#For each symbol in the unencryptedMessage we will add an encrypted symbol into the encryptedMessage

for symbol in unencryptedMessage:

if symbol.isalpha():

num = ord(symbol)

num += key

if symbol.isupper():

if num > ord('Z'):

num -= 26

elif num < ord('A'):

num += 26

elif symbol.islower():

if num > ord('z'):

num -= 26

elif num < ord('a'):

num += 26

encryptedMessage += chr(num)

else:

encryptedMessage += symbol

return encryptedMessage

def loadPasswordFile(fileName):

with open(fileName, newline= '') as csvfile:

passwordreader = csv.reader(csvfile)

passwordList = list(passwordreader)

return passwordList

def savePasswordFile(passwordList, passwordFileName):

with open(passwordFileName, 'w+', newline='') as csvfile:

passwordwriter = csv.writer(csvfile)

passwordwriter.writerows(passwordList)

while True:

print("What would you like to do:")

print(" 1. Open password file")

print(" 2. Look up a password")

print(" 3. Add a password")

print(" 4. Delete a password")

print(" 5. Save password file")

print(" 6. Print the encrypted password list (for testing)")

print(" 7. Quit program")

print("Please enter a number (1-7)")

choice = input()

if(choice == '1'): #Load the password list from a file

passwords = loadPasswordFile(passwordFileName)

#assignment starts here - insert your own code

if(choice == '2'): #Look up at password

print("Which website do you want to look up the password for?")

for keyvalue in passwords:

print(keyvalue[0])

passwordToLookup = input()

for sublist in passwords: #loops through sublists in passwords list

if passwordToLookup in sublist:

#reverses encryptionKey in function for list index that goes with passwordToLookup

decryptedPassword = passwordEncrypt(sublist[1], -encryptionKey)

print(decryptedPassword)

if(choice == '3'): #add password

print("What website is this password for?")

website = input()

print("What is the password?")

unencryptedPassword = input()

encryptedPassword = passwordEncrypt(unencryptedPassword, encryptionKey) #calls passwordEncrypt function

newPasswordList = [website, encryptedPassword] #creates new list from website and encryptedPassword input

passwords.append(newPasswordList) #adds newPasswordList to original passwords list

if(choice == '4'): #delete password

print("What site would you like to delete the password for?")

for keyvalue in passwords:

print(keyvalue[0])

passwordToDelete = input()

for sublist in passwords: #loops through sublists in passwords list

if passwordToDelete in sublist:

passwords.remove(sublist) #removes sublist containing passwordToDelete site and its password

print("That site and password have been deleted.")

if(choice == '5'): #Save the passwords to a file

savePasswordFile(passwords, passwordFileName)

if(choice == '6'): #Print out the password list

for keyvalue in passwords:

print(', '.join(keyvalue))

if(choice == '7'): #Quit the program

sys.exit()

print()

print()

ATTEMPT 2