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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75  76  77  78  79  80  81  82  83  84  85  86  87  88  89  90  91  92  93  94  95  96  97  98  99  100  101  102  103  104  105  106  107  108  109  110  111  112  113  114  115  116  117  118  119  120  121  122  123  124  125 | 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, fileName):        with open(fileName, '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. Lookup 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)          if(choice == '2'): #Lookup at password          print("Which website do you want to lookup the password for?")          for keyvalue in passwords:              print(keyvalue[0])          passwordToLookup = input()            for i in range(len(passwords)):                           #step 1 - loops through the list of passwords              if passwordToLookup == passwords[i][0]:               #step 2 - checks if the name is found                  print(passwordEncrypt(passwords[i][1], -16))       #step 3 - prints out the passwords through encryption          if(choice == '3'):          print("What website is this password for?")          website = input()          print("What is the password?")          unencryptedPassword = input()            encryptedPassword = passwordEncrypt(unencryptedPassword, 16)       #step 1 - encrypts the new password          newPassword = [website, encryptedPassword]                         #step 2 - creates a list including the website name and encrypted password          passwords.append(newPassword)                                      #step 3 - adds the new password to the list          if (choice == '4'): #delete a password            print('Which website password do you wish to remove? ')          for keyvalue in passwords:              print(keyvalue[0])          websiteChoice = input()          passwordToRemove = [i for i in websiteChoice if i in passwords]            for passwordToRemove in (passwords):              passwords.remove(passwordToRemove)          print('Your password for ' + str(websiteChoice) + ' has been successfully removed.')          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 our program          sys.exit()          print()      print() |

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