

# Cryptography: Script to encrypt and Decrypt messages

## 1. Intro and choice of option to perform encryption or decryption:

```
This is a small program to Encrypt and Decrypt text files

* Please note that at this point, this program works only for .txt files*

**In order to Decrypt a file, it has to encrypted using this program**

LETS GET STARTED !!!

Choose an Option:
1. Encrypt a file    2. Decrypt a file
█
```

## 2. Encrypting a file:

### a. Script Output:

```
Choose an Option:
1. Encrypt a file    2. Decrypt a file
1

Enter the path to your text file that you want to encrypt/decrypt - please use / backslash when typing in directory path:
For Example: C:/Users/antho/Desktop/file_to_encrypt.txt
C:/Users/antho/OneDrive/Desktop/cover.txt

Enter the path where you want to save your encrypted/decrypted text file - please use / backslash when typing in directory path:
For Example: C:/Users/antho/Desktop/encrypted_filet.txt
C:/Users/antho/OneDrive/Desktop/encrypt.txt
Please input a 4 digit numeric only password:
This password is the password used to lock/unlock the file:

1854
Your File has been encrypted and saved to the location path you provided
```

**b. File created in the path provided (Encrypt.txt):**



**c. Proof of Encryption:**

**Original file contents:**

```
cover - Notepad
File Edit Format View Help
This script is used to encrypt a plain text file(.txt) in Python.
It uses python commands such as input, string, import, slicing, lists, for loops ,
if statements, Dictionary and print functions. After learning about security,
I wanted to try and build my own script to encrypt and decrypt files and this works as tested.
I am open to feedback and suggestions.
```

VS

**Encrypted file Contents:**

```
*encrypt - Notepad
File Edit Format View Help
cfjloijh87#thadj^98$&6ghoiyh4&uuKU)J(5hadjoihuhtyoiyhfgsd89h6hadjbt9887#tuhtyhadjoihuhtyNIHToiyhcfj18&89uhty87#
t^98$uhtycfj1&6ghfgsd89h6gdfhbt9887#tuhtygtfduhtybt984jajgtfdhadj&6ghuhty87#tcfj187H687#tuhty0h^ghadj4jajcfj1JH>kyh
4&87#t87H687#tmnh7uhtyhadj&6ghuhtyKagggdfh87#t)J(5^98$&6ghyh4&uhty&6ghplki7^9^uhtyplki,j,a87#tuhtyNIHToiyhcfjloijhuh
tybt98gdfh87#t)J(5^98$&6ghuhtyfgsd^98$tg4ptg4pgtfd&6gh8&89oihuhtyoiyhNIHTfgsd)J(5uhtygtfdoiuhuhtyhadj&6ghbt98NIHT87#
t7^9^uhtyoiyh87#t89h6hadj&6ghdh#77^9^uhtyhadjtg4pbt98^98$89h687#t7^9^uhtyoiyh4jajhadjfgsdhadj&6ghdh#77^9^uhty4jajhadjo
ijh87#toijh7^9^uhty0h^g^98$89h6uhty4jaj^98$^98$bt98oihuhty7^9^&6ghplki7^9^uhtyplkihadj0h^guhtyoiyh87#tgtfd87#tcfj1tg4p
cfj1&6gh87#toijh7^9^uhtyj'ixhadjfgsd87#thadj^98$&6ghgtfd89h6gdfhuhtygtfd&6gh8&89uhtybt9889h6hadj&6gh87#tuhty0h^gNIHT&6g
hfgsd87#thadj^98$&6ghoiyh4&uhtyJkbj0h^g87#tcfj189h6uhty4jajcfj1gtfd89h6&6ghhadj&6ghdh#7uhtygtfd$32g^98$NIHT87#tuhtyoi
jhcfdj1fgsdNIHT89h6hadj87#tgdfh7^9^uhty&6ghplki7^9^uhtyplki,j,ahtyStg^gtfd&6gh87#tcfj18&89uhty87#t^98$uhty87#t89h6gdfhuh
tygtfd&6gh8&89uhty$32gNIHTadj4jaj8&89uhtytg4pgdfhuhty^98$Stg^&6ghuhtyoiyhfgsd89h6hadjbt9887#tuhty87#t^98$uhtycfj1&6ghfgs
d89h6gdfhbt9887#tuhtygtfd&6gh8&89uhty8&89cfj1fgsd89h6gdfhbt9887#tuhty0h^ghadj4jajcfjloijhuhtygtfd&6gh8&89uhty87#t)J(5hadjoi
jhuhtyStg^98$89h6!8f#oihuhtygtfdoiuhuhty87#tcfjloijh87#tcfj18&89yh4&6ghplki7^9^uhtyplki,j,ahtygtfdtg4puhty^98$bt98cfj1&
6ghuhty87#t^98$uhty0h^gcfj1cfj18&89$32ggtfdfgsd!8f#uhtygtfd&6gh8&89uhtyoiyhNIHTdh#7dh#7
```

### 3. Decrypting a file:

#### a. Script Output:

2

Enter the path to your text file that you want to encrypt/decrypt - please use / backslash when typing in directory path:  
For Example: C:/Users/antho/Desktop/file\_to\_encrypt.txt  
C:/Users/antho/OneDrive/Desktop/encrypt.txt

Enter the path where you want to save your encrypted/decrypted text file - please use / backslash when typing in directory path:  
For Example: C:/Users/antho/Desktop/encrypted\_file.txt  
C:/Users/antho/OneDrive/Desktop/decrypt.txt  
Please input a 4 digit numeric only password:  
This password is the password used to lock/unlock the file:

1854

Your File has been decrypted and saved to the path that you provided

\*\*\*Kindly note:Every NEW LINE in the decrypted file is denoted by 'n'\*\*\*

#### b. File Created in the path provided:



#### c. Encrypted file:

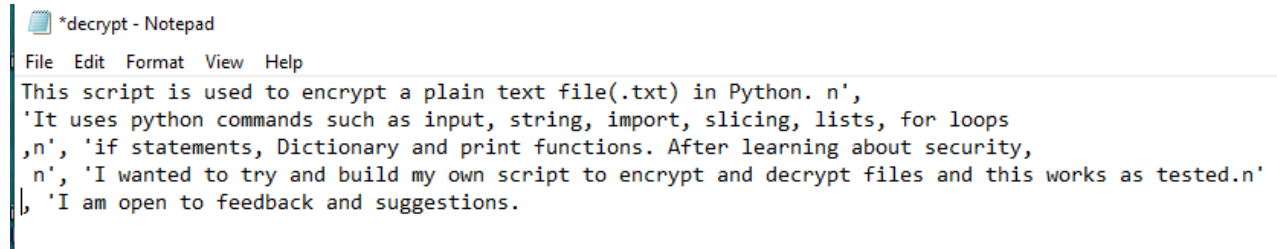
\*encrypt - Notepad

File Edit Format View Help

```
cfjloijh87#thadj^98$&6ghoijhyh4&uuKU)J(5hadjoijhuhtyoiijhfgsd89h6hadjbt9887#tuhtyhadjoijhuhtyNIHToiijhcfjl18&89uhty87#  
t^98$uhty87#t87H687#tmnh7uhtyhadj&6ghuhtyKagggdfh87#t)J(5^98$&6ghy4&uhty86ghplki7*9^uhtyplki,j,a87#tuhtyNIHToiijhcfjl0ijhu  
tybt98gdfh87#t)J(5^98$&6ghuhtyfgsd^98$tg4ptg4pgtfd&6gh8&89oiijhuhtyoiijhNIHTfgsd)J(5uhtygtfdoiijhuhtyhadj&6ghbt98NIHT87#  
t7*9^uhtyoiijh87#t89h6hadj&6ghdh#77*9^uhtyhadjtg4pbt98^98$89h687#t7*9^uhtyoiijh4jajhadjfgsdhadj&6ghdh#77*9^uhty4jajhadjo  
ijh87#toijh7*9^uhty0h^g^98$89h6uhty4jaj^98$^98$bt98oiijhuhty7*9^86ghplki7*9^uhtyplkihadj0h^guhtyoiijh87#tgtfd87#tcfjltg4p  
cfjl&6gh87#toijh7*9^uhtyj'ixhadjfgsd87#thadj^98$&6ghgtfd89h6gdfhuhtygtfd&6gh8&89uhtybt9889h6hadj&6gh87#tuhty0h^gNIHT&6g  
hfgsd87#thadj^98$&6ghoijhyh4&uhtyJkbj0h^g87#tcfj189h6uhty4jajcfj1gtfd89h6&6ghhadj&6ghdh#7uhtygtfd$32g^98$NIHT87#tuhtyoi  
jhcj1lfgsdNIHT89h6hadj87#tgdh7*9^uhty&6ghplki7*9^uhtyplki,j,auhtyStg^gtfd&6gh87#tcfj18&89uhty87#t^98$uhty87#t89h6gdfhu  
tygtfd&6gh8&89uhty$32gNIHTad4jaj8&89uhtytg4pgdfhuhty^98$Stg^&6ghuhtyoiijhfgsd89h6hadjbt9887#tuhty87#t^98$uhty87#t89h6gdfhu  
d89h6gdfhbt9887#tuhtygtfd&6gh8&89uhty8&89cfjlfgsd89h6gdfhbt9887#tuhty0h^ghadj4jajcfjl0ijhuhtygtfd&6gh8&89uhty87#t)J(5hadjo  
ijhuhtyStg^98$89h6!8f#oiijhuhtygtfdoiijhuhty87#tcfjloijh87#tcfj18&89yh4&6ghplki7*9^uhtyplki,j,auhtygtfdtg4puhty^98$bt98cfjl  
6ghuhty87#t^98$uhty0h^gcfjl1cfjl18&89$32ggtfdfgsd!8f#uhtygtfd&6gh8&89uhtyoiijhNIHTdh#7dh#7
```

VS

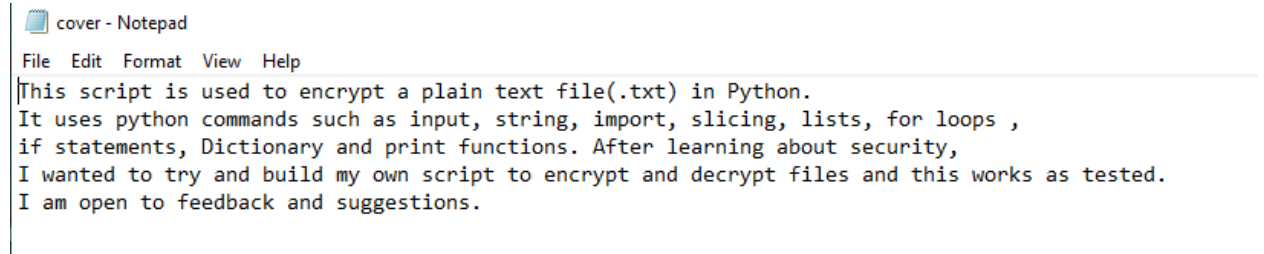
### Decrypted File:



```
*decrypt - Notepad
File Edit Format View Help
This script is used to encrypt a plain text file(.txt) in Python. n',
'It uses python commands such as input, string, import, slicing, lists, for loops
,n', 'if statements, Dictionary and print functions. After learning about security,
n', 'I wanted to try and build my own script to encrypt and decrypt files and this works as tested.n'
,I am open to feedback and suggestions.
```

VS

### Original File:



```
cover - Notepad
File Edit Format View Help
This script is used to encrypt a plain text file(.txt) in Python.
It uses python commands such as input, string, import, slicing, lists, for loops ,
if statements, Dictionary and print functions. After learning about security,
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