

Roman Cipher – April 10th, 2016

```
1 CIPHER_ENCRYPT = {"A": "X", "B": "Y", "C": "Z", "D": "A", "E": "B", "F": "C", "G": "D", "H": "E", "I": "F", "J": "G",
2                  "K": "H", "L": "I", "M": "J", "N": "K", "O": "L", "P": "M", "Q": "N", "R": "O", "S": "P", "T": "Q",
3                  "U": "R", "V": "S", "W": "T", "X": "U", "Y": "V", "Z": "W"}
4
5 CIPHER_DECRYPT = {"X": "A", "Y": "B", "Z": "C", "A": "D", "B": "E", "C": "F", "D": "G", "E": "H", "F": "I", "G": "J",
6                  "H": "K", "I": "L", "J": "M", "K": "N", "L": "O", "M": "P", "N": "Q", "O": "R", "P": "S", "Q": "T",
7                  "R": "U", "S": "V", "T": "W", "U": "X", "V": "Y", "W": "Z"}
8
9
10 def encrypt(message):
11     new_message = ''
12
13     # loop through all characters in message
14
15     # if a character is in CIPHER_ENCRYPT.keys() then we will encrypt it
16     # look for the character in the CIPHER_ENCRYPT and add the value to new_message
17
18     # if the character is not found in CIPHER_ENCRYPT
19     # then just add the character to new_message
20
21     return new_message
22
23
24 def decrypt(message):
25     new_message = ''
26
27     # loop through all characters in message
28
29     # if a character is in CIPHER_DECRYPT.keys() then we will encrypt it
30     # look for the character in the CIPHER_DECRYPT and add the value to new_message
31
32     # if the character is not found in CIPHER_DECRYPT
33     # then just add the character to new_message
34
35     return new_message
36
37
38 if __name__ == '__main__':
39     # using the input function get a message from the user, store in a variable called message
40
41     # convert the message to uppercase using the message.upper() function
42
43     # call the encrypt() function passing message as a parameter, store the result in a variable called encrypted
44
45     # print the encrypted message
46
47     # call the decrypt() function passing encrypted as a parameter, store the result in a variable called decrypted
48
49     # print the decrypted message
50
```

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To Encrypt	To Decrypt
A = X	X = A
B = Y	Y = B
C = Z	Z = C
D = A	A = D
E = B	B = E
F = C	C = F
G = D	D = G
H = E	E = H
I = F	F = I
J = G	G = J
K = H	H = K
L = I	I = L
M = J	J = M
N = K	K = N
O = L	L = O
P = M	M = P
Q = N	N = Q
R = O	O = R
S = P	P = S
T = Q	Q = T
U = R	R = U
V = S	S = V
W = T	T = W
X = U	U = X
Y = V	V = Y
Z = W	W = Z

GREETINGS EARTHLINGS
DOBBQFKDP BXOQEIFKDP
GREETINGS EARTHLINGS