ONE TIME PAD CRYPTO CHALLENGE

```
B
          C
               D
                    E
                         F
                               G
                                    Н
                                              J
1
     2
          3
               4
                    5
                         6
                               7
                                    8
                                              10
                                              T
K
          M
               N
                    0
                         P
                              0
                                    R
                                         S
11
     12
          13
               14
                    15
                         16
                               17
                                    18
                                         19
                                              20
     V
                    Y
                         Z
U
          W
               X
     22
          23
               24
                    25
                         26
```

MESSAGE(M) = Y(25) E(5) L(12) L(12) O(15) W(23) K(11) N(14) I (9) F(6) E(5) \leftarrow sum = 137 KEY(K) = 13(M) 20(T) 23(W) 5(E) 14(N) 20(T) 25(Y) 19(S) 9(I) 24(X) \leftarrow sum = 172 (FROM AUDIO FILE IN MORSE CODE)

ENCRYPTED MESSAGE = (38(?) 25(?) 35(?) 17(?) 29 (?) 43(?) 36(?) 29(?) 18 (?) 30 (?) 18(?)) Mod26

(Since key is 10 char long and message is 11 just encrypt the last character with M again so just restart from the first char in key to encrypt last char in the message so m(13) + E(5) = 18)

Y(25)	E(5)	L(12)	L(12)	O(15)	W(23)	K(11)	N(14)	I (9)	F(6)	E(5)
M(13)	T(20)	W(23)	E(5)	N(14)	T(20)	Y(25)	S(19)	I(9)	X(24)	M again M(13)
38	25	35	17	29	43	36	29	18	30	18

MESSAGE + KEY = (38(?) 25(?) 35(?) 17(?) 29 (?) 43(?) 36(?) 29(?) 18 (?) 30 (?) 18(?)) Mod26 MOD26 CODE:

modTwentySix.py

Applying the mod 26 operation to the new list of numbers provided

def mod_26(lst):

return [x % 26 for x in 1st]

new_list = [38, 25, 35, 17, 29, 43, 36, 29, 18, 30, 18]

result_new_list = mod_26(new_list)

result new list

ENCRYPTED MESSAGE = L(12), Y(25), I(9), Q(17), C(3), Q(17), J(10), C(3), R(18), D(4), R(18) \leftarrow sum 136

Decrypted MESSAGE(M) = ? \leftarrow sum =