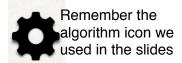
1.) If you haven't already had the chance run the code <a href="minicrypto/code/decypher.py">minicrypto/code/decypher.py</a>
You may need to copy it from github if you don't have a github clone

Please take note of three things:

A.) Note that the algorithm itself is in a function called decrypt. This is the actual



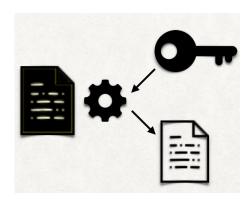
function you'll need.

B.) Note the small encrypted text. We've seen it before in the slides:

```
CFFG
```

C.) Note that we are passing the "decrypt" function the encrypted text and a shift key number decrypt(text, 1)

2.) We now have the basic pieces of the process.



3.) Think about decrypt(text, 1) and answer the following questions for yourself.

## Questions:

Do you think all encrypted text you will encounter will only be Caesar shifted 1 space?

How many possible keys could there be?

4.) Manually edit decrypt.py in order to decrypt <u>/minicrypto/blob/master/ciphertext/text1.txt</u>. It will likely not have a key=1.

Take note of what key number cracks text1.txt

5.) Once you've cracked text1.txt. Start working with minicrypto/code/loopdecypher.py

Note the following things:

```
text='nbyly qum uh ifx qiguh qbi fcpyx ch u mbiy. mby bux mi guh

for i in range(1, 4):
    print 'Cipher Shift Attempt ' ,i, ':',
    print decrypt(text,i)
    command = raw_input('press Enter to contine OR q to quit when
    if command == 'q':
        print '\n'
        print 'lt took ',i,'tries to crack this code.'
```

- A.) Look at that <u>for i in range(start, stop)</u> code. It's going to save you typing and loop from start to stop.
- B.) Notice the printout/prompts wrapped around *decrypt()*.
- C.) Notice it's the good old text1.txt

## Questions:

Do you want to loop through just that range of keys?

- 6.) Run loopdecypher.py
- 7.) Replace the text variable in loopdecypher with the text from <a href="mailto://minicrypto/blob/master/ciphertext/text2.txt">/minicrypto/blob/master/ciphertext/text2.txt</a>. Decrypt it
- 8.) Replace the text variable in loopdecypher with the text from <a href="minicrypto/blob/master/ciphertext/text3.txt">/minicrypto/blob/master/ciphertext/text3.txt</a>. Decrypt it