Walkthrough

1. First run the actual code itself and see what the output is:

```
C:\>python3 main.py
Hey! I can help you encrypt thing! What do you want encrypted: hello world
Here you go: .... --... -. --... .--. ..- -..- .-- .-. -... -.. ..-. -.. . ..
.. -.. --- .--. -.. -..- --.- . -.-. -.-- .--. ..
Oh and can you figure out what this is for me: -.... ...-- --. .. .-.. --...
.. -... ..... . .--. .. -.-. -. ..... --- -- .. -..- ..- .-. -.-- --.. .-- --
. ...- ..--- . -.. --... ...- --. .- -- .--. .--. ... -.... ..--- ..- .- -.-.
 --. . ....- .- .-- ..- --.- .--- .. --.-
Hint: -. -. ... -..- ... ..--- ...-- ..-. .--. ..-. ...- .-- -.- -.... .-.. .
-.. -- ...- ....- .-- .-- --.. .-.. --.. -. --
Do you know what the flag is:
```

2. The first thing to look at is the fact that the “Hint” is the key translated into morse code. And translating it out of morse code gives you :
    a. Here you go: H7N7LUXWRBDFDEHDOLDXQECYLI======
    b. Unknown: 63GIL7IB5EPICN5OMIXURYZWGV2ED7VGAMPPS62UACGE4AWUQJIQ====
    c. Hint: NNSXS23FPFVWK6LLMV4WWZLZNM======
3. Then looking at the code itself, you can see that all of these have been translated into base32 of all things because it only has letters A-V and 0-9 which morse code can translate.
4. Translating from Base32 gets you:
    a. Here you go: keykeykeykeykeyk
    b. Unknown: XINBBTTZ3MSJI3UFCBICOC65467WUQDYD5XU3WXLK3M6NBPPYORQ
    c. Hint: NNSXS23FPFVWK6LLMV4WWZLZNM
5. Turned into hex is:
    a. Here you go: \x3f\xdb\xf5\xd2\xf6\x88\x46\x51\x90\xe3\x72\xc7\x78\x10\x58\x5a
    b. Unknown: \xf6\xcc\x85\xfd\x01\xe9\x1e\x81\x37\xae\x62\x2f\x48\xe3\x36\x35\x74\x41\xfe\xa6\x03\x1e\xf9\x7b\x54\x00\x8c\x4e\x02\xd4\x82\x51
    c. Hint: \x6b\x65\x79\x6b\x65\x79\x6b\x65\x79\x6b\x65\x79\x6b\x65\x79\x6b
6. Using python to decode the hex using AES:

```
key = b"\x6b\x65\x79\x6b\x65\x79\x6b\x65\x79\x6b\x65\x79\x6b\x65\x79\x6b"
input = b"\x3f\xdb\xf5\xd2\xf6\x88\x46\x51\x90\xe3\x72\xc7\x78\x10\x58\x5a"
flag = b"\xf6\xcc\x85\xfd\x01\xe9\x1e\x81\x37\xae\x62\x2f\x48\xe3\x36\x35\x74\x41\xfe\xa6\x03\x1e\xf9\x7
cipher = AES.new(key, AES.MODE_CBC)

ciphertext = cipher.decrypt(input)
cipherflag = cipher.decrypt(flag)

print(ciphertext)
print(cipherflag)
```

7. I get the flag!!!!!!!!!: b'rhit{this_is_the_flag}\n\n\n\n\n\n\n\n\n\n'