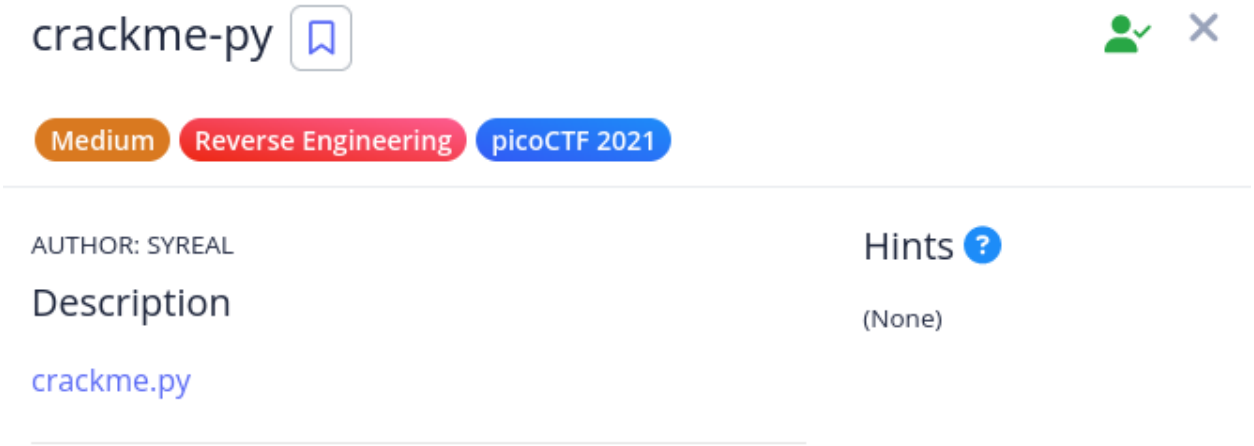
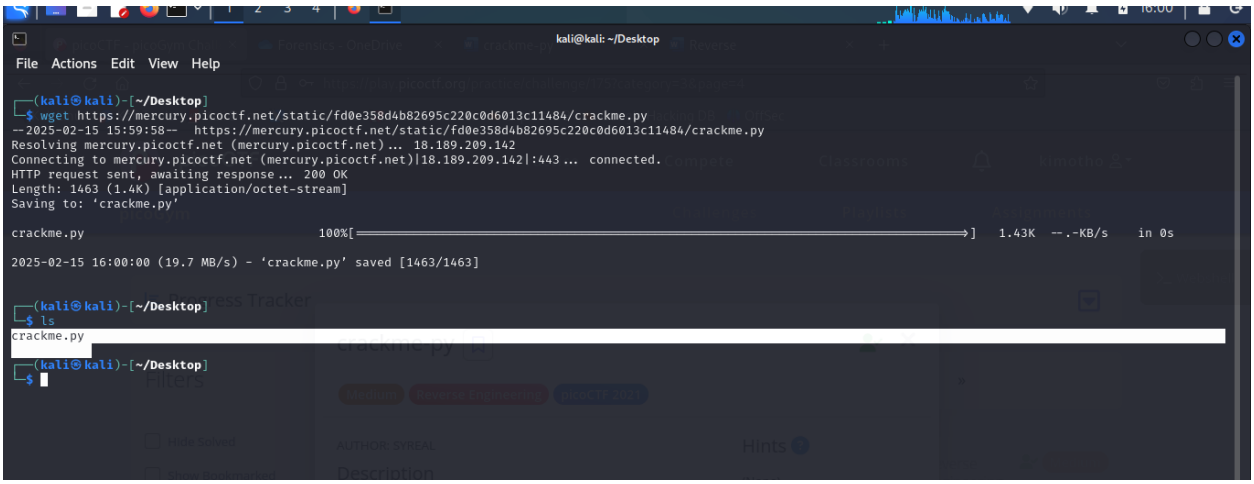
LinkedIn: [Kelvin Kimotho]

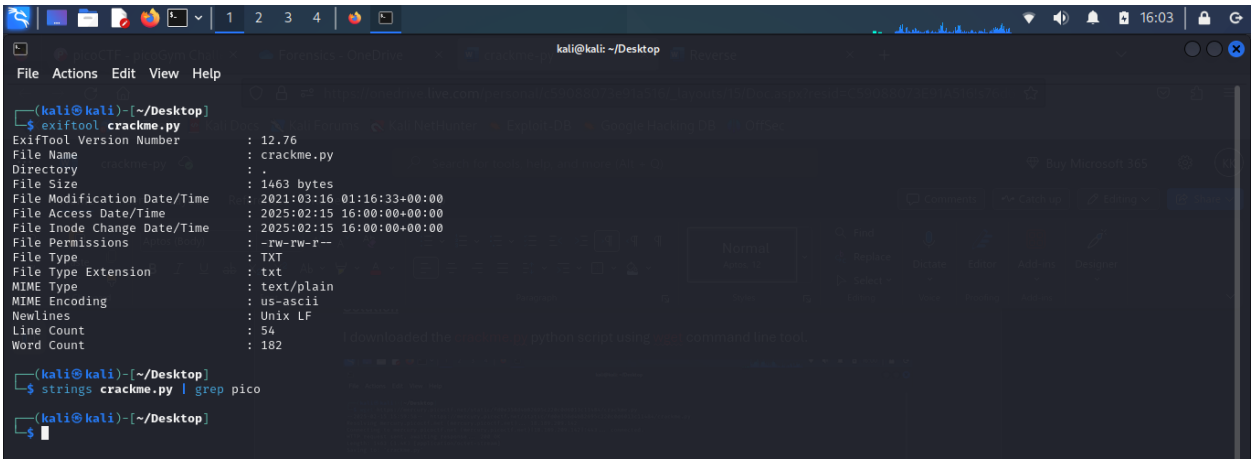


Solution

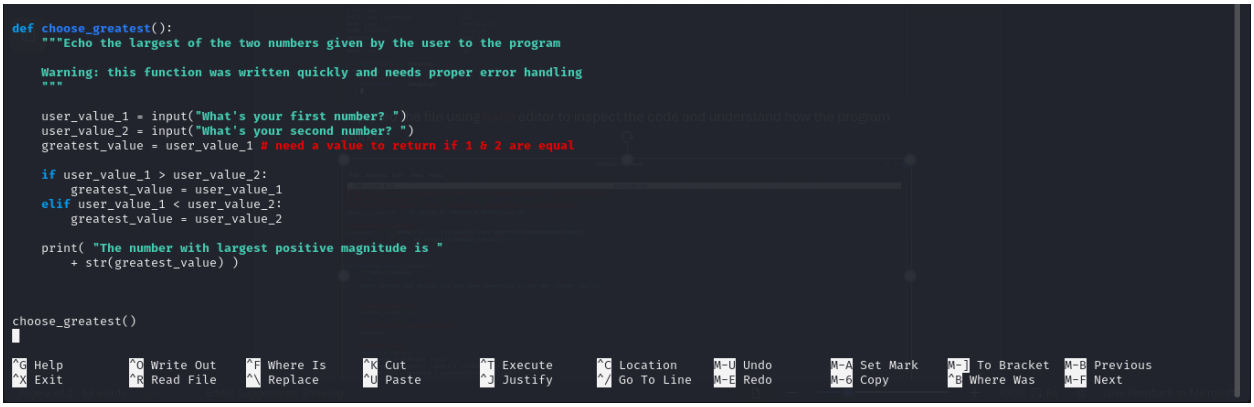
I downloaded the crackme.py python script using wget command line tool.



I went ahead inspecting the file metadata and its strings contents using exftool and strings tool respectively but found no flag.



I opened the file using nano editor to inspect the code and understand how the program works.



The program had two methods implemented namely decode_secret(secret) which takes secret as a parameter

```
def decode_secret(secret):
    """ROT47 decode

    NOTE: encode and decode are the same operation in the ROT cipher family.
    """

    # Encryption key
    rotate_const = 47

    # Storage for decoded secret
    decoded = ""

    # decode loop
    for c in secret:
        index = alphabet.find(c)
        original_index = (index + rotate_const) % len(alphabet)
        decoded = decoded + alphabet[original_index]

    print(decoded)
```

and choose_greatest() which takes no argument. I also learnt about a secret stored under a variable name ’ bezos_cc_secret” .

```
# We want our biggest client to know his information is safe with us.
bezos_cc_secret = "A:4@r%uL M-^M0c0AbcM-MFE055a4ce`eN"
```

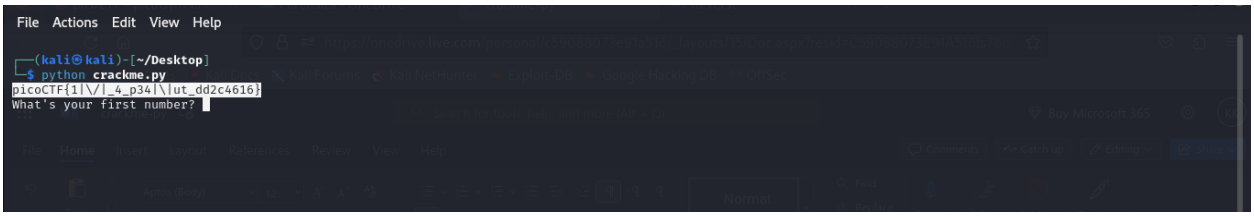
I also learnt that the decode_secret method was implemented but never called. I went ahead and called the method passing bezos_cc_secret as the input to the method.

```
decode_secret(bezos_cc_secret)

choose_greatest()

^G Help        ^O Write Out   ^F Where Is    ^K Cut         ^T Execute     ^C Location    M-U Undo       M-A Set Mark   M-] To Bracket  M-B Previous
^X Exit        ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line  M-E Redo       M-6 Copy       ^B Where Was    M-F Next
```

Running the program called the decode_secret() method where the bezos_cc_secret was decoded and printed as the flag.



```
File  Actions  Edit  View  Help

┌──(kali㉿kali)-[~/Desktop]
└─$ python crackme.py
picoCTF{1|\/|_4_p34|\|ut_dd2c4616}
What's your first number?
```

Thats how I captured the flag.