

Main Solution:

You are expected to copy the nc command which is as follows, going into it we can see that it executes an app that prints each character ONE BY ONE

```
kali@kali: ~  
File Actions Edit View Help  
do you want? Enter an index: 1000  
(kali@kali)-[~]  
$ nc 94.237.62.117 49011  
Which character (index) of the flag do you want? Enter an index: 0  
Character at Index 0: H  
Which character (index) of the flag do you want? Enter an index: 1  
Character at Index 1: T  
Which character (index) of the flag do you want? Enter an index: 2  
Character at Index 2: B  
Which character (index) of the flag do you want? Enter an index: 3  
Character at Index 3: {  
Which character (index) of the flag do you want? Enter an index: 4  
Character at Index 4: t  
Which character (index) of the flag do you want? Enter an index: 5  
Character at Index 5: H  
Which character (index) of the flag do you want? Enter an index: 6  
Character at Index 6: 1  
Which character (index) of the flag do you want? Enter an index: 7  
Character at Index 7: 5  
Which character (index) of the flag do you want? Enter an index: 8  
Character at Index 8: _  
Which character (index) of the flag do you want? Enter an index: 9  
Character at Index 9: 1  
Which character (index) of the flag do you want? Enter an index: 10  
Character at Index 10: s  
Which character (index) of the flag do you want? Enter an index: 11  
Character at Index 11: _
```

WELL DEFINITELY NOT GOING TO DO IT MANUALLY

Firstly, to establish a baseline, i.e. how big of a number I would likely need,

```
(kali@kali)-[~/.../CTFs/HTB Cyber Apocalypse 2024/Misc/Very Easy]  
$ nc 94.237.62.117 49011  
Which character (index) of the flag do you want? Enter an index: -1  
Index out of range!  
Which character (index) of the flag do you want? Enter an index: 10000  
Index out of range!  
Which character (index) of the flag do you want? Enter an index: 1000  
Index out of range!  
Which character (index) of the flag do you want? Enter an index: 100  
Character at Index 100: g  
Which character (index) of the flag do you want? Enter an index: 200  
Index out of range!  
Which character (index) of the flag do you want? Enter an index: exit^C
```

Good to see that it handles exceptions, but we can see that the safe side is about ~100. We can establish that approx is 0 to 200.

So I did a bash script to connect to the specified IP address and PORT using nc and then send inputs of 0 to 200

*NOTE: In order to run this you would minimally need to **chmod +x test.sh** before executing using **./test.sh**

test.sh

```
#!/bin/bash
```

IP address and port to connect to

```
IP="94.237.62.117"
```

PORT="49011"

```
# Connect using nc
```

```
nc "$IP" "$PORT" << EOF
```

```
$(seq 0 200)
```

EOF

After running the above test.sh copy all the lines excluding the last line before you terminate (ctrl+c) the sh file to a txt file.

[illegible]

Python script that helps to parse the data of the txt file to give you the final flag

test.py

#Usage: python3 test.py <text file> e.g. python3 test.py test.txt

```
import sys
```

```
f = open(sys.argv[1], "r")
```

```
temp = ""
```

```
i=0
```

```
for x in f:
```

```
    #this is to check in case you decided to copy the index out of range ones also
```

```
    if "Index out of range!" in x:
```

```
        continue
```

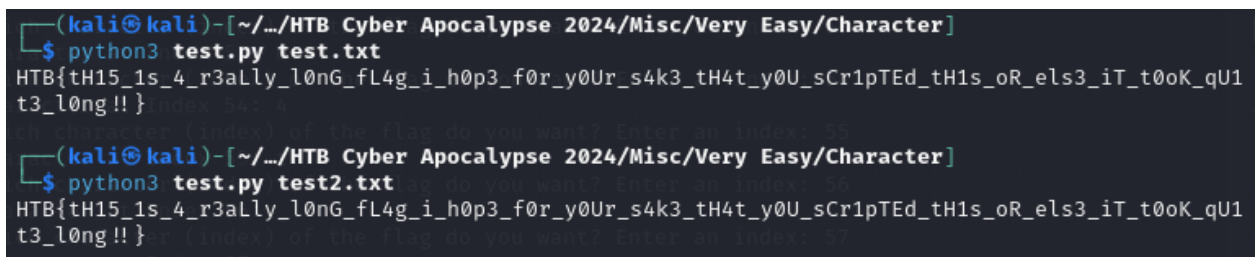
```
    else:
```

```
        temp += x.replace('Which character (index) of the flag do you want? Enter an index:
```

```
Character at Index ' + str(i) + ': ', ").rstrip()
```

```
        i+=1
```

```
print(temp)
```



```
(kali㉿kali)-[~/.../HTB Cyber Apocalypse 2024/Misc/Very Easy/Character]
$ python3 test.py test.txt
HTB{tH15_1s_4_r3aLly_l0nG_fL4g_i_h0p3_f0r_y0Ur_s4k3_tH4t_y0U_sCr1pTEd_tH1s_oR_elS3_iT_t0oK_qU1
t3_l0ng!!}
```

```
(kali㉿kali)-[~/.../HTB Cyber Apocalypse 2024/Misc/Very Easy/Character]
$ python3 test.py test2.txt
HTB{tH15_1s_4_r3aLly_l0nG_fL4g_i_h0p3_f0r_y0Ur_s4k3_tH4t_y0U_sCr1pTEd_tH1s_oR_elS3_iT_t0oK_qU1
t3_l0ng!!}
```

The above shows 2 different txt files, one containing only the lines that contains characters of the flag and the other txt file contains all lines include the index out of range lines