# COMP 7003 Introduction to Information and Network Security

Assignment-02 Testing

Anmol Mittal A01397754 February 2<sup>nd</sup>, 2025 Course Reference Number (CRN): 91662

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Test	Expected	Actual	Screenshot
Enter invalid BPF filter	fail	fail	Test 1
Too many arguments in the BPF Filter	fail	fail	Test 2
Enter no BPF filter	pass	pass	Test 3
Run the program with too many CLI arguments	fail	fail	Test 4
Enter non-number/integer in the number of packets to capture	fail	fail	Test 5
No number in the number of packets to capture prompt	pass	pass	Test 6
Negative number in the number of packets to capture	pass	pass	Test 7
Positive number in the number of packets to capture	pass	pass	Test 8
Valid BPF filter for ARP	pass	pass	Test 9
Valid BPF filter for TCP	pass	pass	Test 10
Valid BPF filter for UDP	pass	pass	Test 11
Valid BPF filter for ICMP	pass	pass	Test 12
No interface entered	pass	pass	Test 13
No arguments entered at all	pass	pass	Test 14

# **Tests**

#### Test 01

```
anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source

anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source$ sudo python3 main.py -f wrongfilter

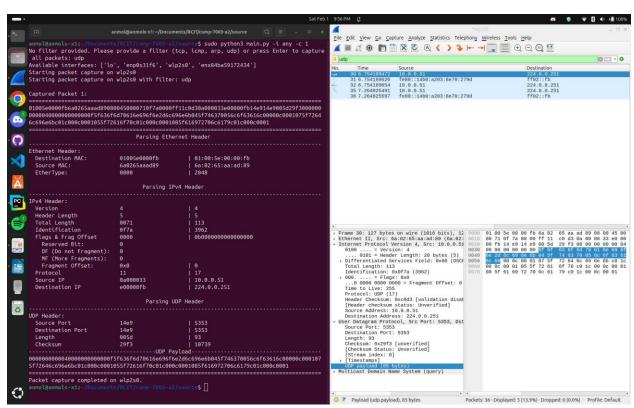
Error: Invalid filter 'wrongfilter'. Allowed filters: tcp, icmp, udp, arp.

anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source$
```

#### Test 02

```
anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source

anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source$ sudo python3 main.py -f tcp icmp usage: main.py [-h] [-i INTERFACE] [-f FILTER] [-c COUNT] main.py: error: unrecognized arguments: icmp anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source$
```

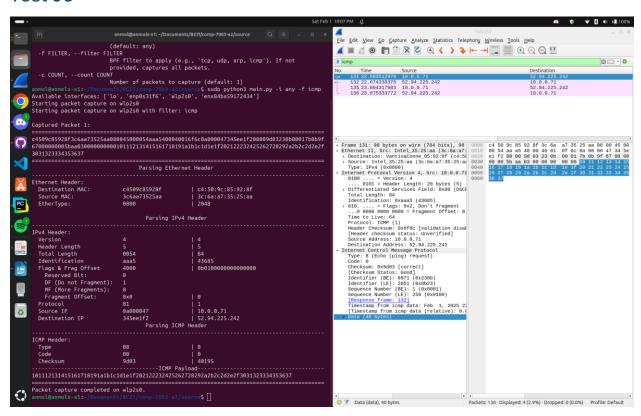


```
anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source

anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source$ sudo python3 main.py -i any -c 1 -f tcp -r truth
usage: main.py [-h] [-i INTERFACE] [-f FILTER] [-c COUNT]
main.py: error: unrecognized arguments: -r truth
anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source$
```

#### Test 05

```
anmol@anmols-x1:-/Documents/BCIT/comp-7003-a2/source Q = - □ ×
anmol@anmols-x1:-/Documents/BCIT/comp-7003-a2/source$ sudo python3 main.py -i any -c a -f tcp
usage: main.py [-h] [-i INTERFACE] [-f FILTER] [-c COUNT]
main.py: error: argument -c/--count: invalid int value: 'a'
anmol@anmols-x1:-/Documents/BCIT/comp-7003-a2/source$
```



```
anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source

anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source$ sudo python3 main.py -i any -c -1 -f tcp

Error: The packet count (-c) cannot be negative.
anmol@anmols-x1:~/Documents/BCIT/comp-7003-a2/source$
```

