

EXPERIMENT – 14

AIM: - Write a code using RAW sockets to implement packet sniffing.

CODE: -

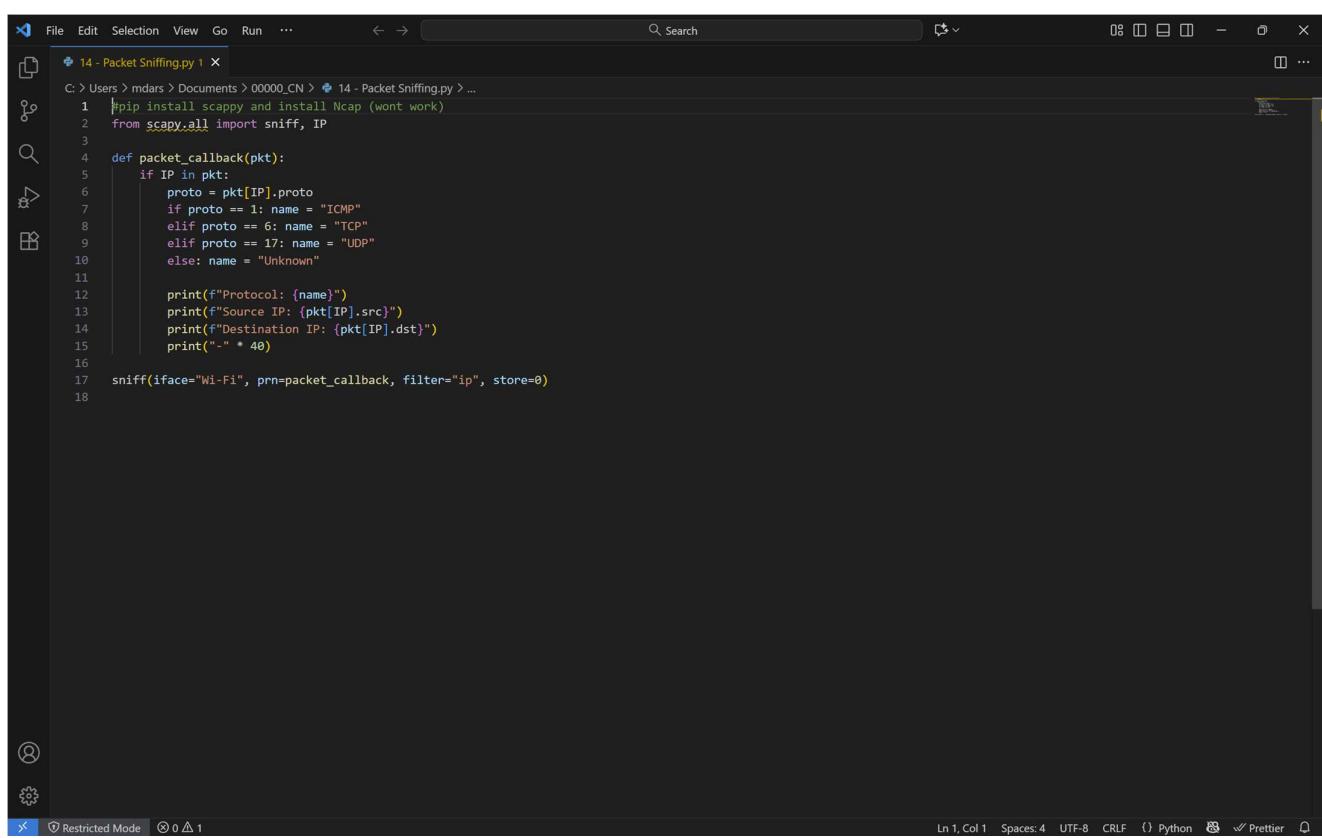
```
from scapy.all import sniff, IP

def packet_callback(pkt):
    if IP in pkt:
        proto = pkt[IP].proto
        if proto == 1: name = "ICMP"
        elif proto == 6: name = "TCP"
        elif proto == 17: name = "UDP"
        else: name = "Unknown"

        print(f"Protocol: {name}")
        print(f"Source IP: {pkt[IP].src}")
        print(f"Destination IP: {pkt[IP].dst}")
        print("-" * 40)

sniff(iface="Wi-Fi", prn=packet_callback, filter="ip", store=0)
```

OUTPUT: -



```
14 - Packet Sniffing.py 1
C:\> Users > mdars > Documents > 00000_CN > 14 - Packet Sniffing.py > ...
1  pip install scapy and install Ncap (won't work)
2  from scapy.all import sniff, IP
3
4  def packet_callback(pkt):
5      if IP in pkt:
6          proto = pkt[IP].proto
7          if proto == 1: name = "ICMP"
8          elif proto == 6: name = "TCP"
9          elif proto == 17: name = "UDP"
10         else: name = "Unknown"
11
12         print(f"Protocol: {name}")
13         print(f"Source IP: {pkt[IP].src}")
14         print(f"Destination IP: {pkt[IP].dst}")
15         print("-" * 40)
16
17 sniff(iface="Wi-Fi", prn=packet_callback, filter="ip", store=0)
18
```

Ln 1, Col 1 Spaces:4 UTR-8 CRLF {} Python ✓ Prettier

RESULT: -

Implemented RAW sockets using packet sniffing.