Exp: 14 - Packet Sniffing

Date: 29.10.24

Aim

To write code using Raw Sockets to implement packet Sniffing

Algorithm

Code:

Packet - Sniffer.py

```
from scapy.all import sniff
from scapy.layers.net import IP, TCP, UDP, ICMP

def packet_call_back(packet):
    if IP in packet:[IP]
    protocol = ip_layer.proto
    src_ip = ip_layer.src
    dst_ip = ip_layer.dst

    protocol_name = ""
    if protocol == 1
        protocol_name = "ICMP"
    elif protocol == 6
        protocol name = "TCP"
    elif protocol == 17:
        protocol_name = Unknown UDP
```

```
else:
    Protocol_name = "Unknown protocol"
    Print (f" Protocol : {Protocol}")
    Print (f" Source IP : {Src_ip}")
    Print (f" Destination IP: {dst. IP}")
    Print ("_"*50)
def main():
    Sniff (iface = 'wifi', Prin = Packet= call back,
           filte = 'p'; Store=0)
if __name__ == "__main__":
    main()
```

Output:

```
Protocol : TCP
Soure IP: 51:132.193.105
Destination IP: 192.168.34.193
Protocol : TCP
Soure IP:192.168.34.193
Destination IP: 51.132.193.105
```

Result:

Thus implementation of packet Sniffing is done using raw sockets.

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