

Ex NO:12 USING : RAW SOCKETS TO IMPLEMENT
DATE : 30.09.25 PACKET SNIFFING

(3) third - Block

Algorithm:

```
from scapy.all import sniff
from scapy.layers.inet import IP, TCP, UDP, ICMP
def packet_callback(packet):
    if IP in packet:
        ip_layer = packet[IP]
        protocol = ip_layer.proto
        if protocol == 6:
            protocol_name = "TCP"
        elif protocol == 17:
            protocol_name = "UDP"
        else:
            protocol_name = "Unknown Protocol"
        print(f"Protocol : {protocol_name}")
        print(f"Source IP : {src_ip}")
        print(f"Destination IP : {dst_ip}")
        print("-" * 50)
sniff(iface='wi-fi', prn=packet_callback, filter="ip", store=0)
```

Explanation - between read and monitor mode

Output :

Protocol: TCP

Source IP: 192.168.0.108

Destination IP: 4.225.11.192

Protocol: UDP

Source IP: 192.168.0.108

Destination IP: 52.178.1.69

Result:

The program has been executed successfully.

✓
CS1012