EX NO: 14 Using raw sockets to implement Packet sniffing.

Date: 6/10/25

Algorithm:

```
from scopy.all import sniff
from scopy.layers.inet import IP,TCP,UDP,ICMP
def packet_callback(packet):
    if IP in packed:
        iplayer = 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 == 7:
            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('face = 'wifi', prn = packet_callback,
                    filter = "ip", store = 0)
```

output:

Protocol : TCP

Source IP : 192.168.0.108

Destination IP : 4.225.11.192

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Protocol : UDP

Source IP : 192.168.0.108

Destination IP : 54.178.1.64.

Result :

The program has been executed succesfully.