Date: 09/10/25

practical-14

Aim:

write a code using RAW sockets to implement packet sniffing

CODE:

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

def (Packet_callback (packet):
        if IP in packet:
            src_ip = packet[IP].src
            dst_ip = packet[IP].dst

            if TCP in packet:
                scr_port = packet[TCP].sport
                dist_port = packet[TCP].dport
                print(f"TCP packet: {src_ip}:{src_port}
                      → {dst_ip}:{dst:port}")
            elif UDP in packet:
                src_port = packet[UDP].sport
                dst_port = packet[UDP].dport
                print(f"UDP packet:{src_ip}:{src_port}
                      ---> {dst_ip}:{dst_port}")
            elif ICMP in packet:
                print(f"ICMP packet: {src_ip}->{dst_ip}")
        else:
            print("IP packet: {src_ip}-> {dst_ip}")
```

print("Starting network sniffer.")
Sniff(prn= packet_callback, files = "ip", store = False

Result: Hence packet sniffing was executed successfully using RAW socket code.