S. No.	Date	Title	Page No.	Teacher's Sign / Remarks
12.	8.11.2024	Echo Client Server using TCP/UDP		
13.	8.11.2024	Ping Program.		
14	6.11.2024	RAW Socket		
15.	8.11.2024	Web Analyzer.		

completed

Exp No: 14 RAW Saket

Date :

Aim :

To implement a code using RAW sockets to implement pocket sniffing.

Program:

```
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
        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 = "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)

def main():
    sniff(iface="wifi", prn=packet_callback,
          store=0)

if __name__=="__main__":
    main()
```

o/p :

```
Protocol: TCP
Source IP: 20.247.184.142
Destination IP: 172.20.10.2

Protocol: TCP
Source IP: 20.247.184.142
Destination IP: 172.20.10.2

Protocol: TCP
Source IP: 172.20.10.2
Destination IP: 20.247.184.142
```

Result: Thus the packet sniffing program was executed and successfully o/p is verified.