Ex - 14
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PACKET SNIFFING

Aim :

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:
        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"
        else:
            protocol_name = "unknown protocol"
print(f"Protocol: {protocol_name}")
print(f"Source IP: {ip_src_ip}")
print(f"Destination IP: {ip_dst}")

def main():
    sniff(iface="Wi-Fi", prn=packet_callback,
          filter="ip", store=0)
if __name__ == "__main__":
    main()
```

Output:

Protocol : TCP

Source IP : 20.247.184.142

Destination IP : 172.20.10.2

Result :

Thus the python program to implement packet sniffing has been implemented successfully.

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