

EXNO: 14

PACKET SNIFFING

DATE: 22-10-24

AIM:

→ Implement packet sniffing using RAW sockets

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"
```

```
        elif protocol == 17:
```

```
            protocol_name = "UDP"
```

```
        else:
```

```
            protocol_name = "Unknown"
```

```
            protocol_name = "Unknown"
```



```

print(f"Protocol: {protocol_name}")
print(f"Source IP: {src_ip}")
print(f"Destination IP: {dst_ip}")
print("-" * 50)

```

```

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

Protocol: TCP
Source IP: 20.247.184.142
Dest IP: 172.20.247.184

Protocol: TCP
Source IP: 20.247.184.182
Dest IP: 172.20.10.2

```

"Sniff" = sniffer

Thus, "Packet Sniffing using RAW packets" has been implemented