

Exp No: 14

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Aim:

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

code:

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

```
def packet_callback(packet):
```

```
    if ip in packet:
```

```
        ip_layer = 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)
```