

Expt 14 -

from socket import *

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

```
    if IP in packet:
```

```
        ip_layer = packet[IP]
```

```
        protocol = ip_layer.proto
```

```
        src_ip = ip_layer.src
```

```
        dest_ip = ip_layer.dest
```

```
        protocol_name = ""
```

```
        if protocol == 6:
```

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

```
                protocol_name = "Unknown Protocol"
```

```
                print(f"Protocol: {protocol_name}")
```

```
                print(f"Source IP: {src_ip}")
```

```
                print(f"Destination IP: {dest_ip}")
```

Result:

Thus packet sniffing has been successfully implemented using raw sockets

Pradeep