EXP. NO: 14

DATE: 29-10-24

PACKET SNIFFING

AIM:

To write code using RAW Sockets to implement Packet Sniffing.

ALGORITHM:

→ Start Sniffing: Capture Packets on specified network interface.

→ Check packet types for each packet check if it's IP Packets.

→ Display

→ Repeat first initial scapy

→ PIP Install Scapy

CODE:

Packet_Sniffer.Py

```
from scapy.all import sniff
from scapy.layers.net import IP, TCP, UDP, ICMP
def Packet_callback(Packet):
    if IP in Packet["IP"]
    protocol = IP_layer.proto
    Src_IP = IP_layer.src
    dst_IP = IP_layer.dst
```

```
Protocal_name = " "
if protocal == 1
    protocal_name = "ICMP"
elif protocal == 6:
    protocal_name = "ICP"
elif protocal == 17:
    protocal_name = "UDP"
else:
    protocal_name = "UNKNOWN PROTOCOL"
print(f" Protocal : {Protocal} ")
print(f "Protocal: Source IP : {src.p} ")
print(f " destination IP :  dst.p ")
print ( " - " 50)
def main():
Sniff (if ace = 'wifi', Prn = Packet_callback,
                    filter = 'IP', store=0)
if  --name-- = "
                    --- main --- ";
```

OUTPUT:

Protocol : TCP

Source IP : 51 . 132 . 193 . 105

Destination IP : 192 . 168 . 34 . 193

Protocol : TCP

Source IP : 92 . 168 . 34 . 193

Destination IP : 51 . 132 . 193 . 105

RESULT:

~~Ethus~~ Thus implementation of packet sniffer is done with RAW Sockets successfully.