Aim:

To write code using RAW sockets to implement packet sniffing.

Algorithus:

- -> start sniffing: capture packets on specified network interface.
- -> check packet Type. for each packet check if its
- -> Identify protocol: Determine the protocol.
- -> Display
- -> repeat
- First jutall scapy
- -> PIP enstall scapy.

CODE:

packet-suiffer-py

from scapy all import suiff

from scapy layers inct import IP, TCP, UDP, ICMP

det packet-callback (packet):

if IP in packet [IP]

protocol = ip-layer. proto

src-ip=ip-layer.src

det-ip=ip-layer.det

protocol_naule = ""

```
if protocol == 1:17
                     protocol-value = "ICMP"
                                                 JUNA.
                elif protocol = = b:
                    protocal nauce = "TCP"
                elif protocol = = 17:
                                            1229379010
                    protocol name - "UDP"
                else.
                   protocol name. "Memown protocol"
               print (f "Protocol: { protocol?')
               print (f" source IP: Ssrc_ip3")
              print (f" destination IP: {det-ip}")
              print ("- " 1-50)
                                           37373733
       det main ():
       suiff (iface - wifi', prin = packet-callback, filter="1p"
                                       Store = 0)
     if -- hame -- = '- main -- "!
       Main ()
    output:
    Protocol: TCP
   Source IP: 51.132.193.105
   Destination 1P: 192.168.34.193
   Protocol: TCP
  Source 1P: 51.132.193/05
 Destination IP: 51/132, 193, 105
  Result:
Thus implementation of packet shiffing is done
```