EX: 14

Data: 29/10/24

Raw Socket to implement Packet Sniffing

To write code using RAW socketh to implement Packet Sniffing

Algorithm:

- > start smffing: capture Packets on specified network in terfale
- -> chock Packet type. for each Packet the if its 18 Packet
- -> Identify Protocal: Determine the Protocal

-> Display

-> refeat

Fight inital Eapy

-> Pip install scapy

Lode:

Packet-Sriftor. Py

From Scapy all Import Smitt

from Scafg layers inet impost 18, TCP, UDP, 1CMP deh Packet_callback Cracket):

if If in PACKET CIPI

Protocol = IP - Layor Proto

SICLIP = IP : layer . SIC

dlt-18 = 18_ layer. dit

```
Protocol name =
         If Protocol == 1:
            Protocol - name = "ICMP"
        elif protocol = = 6:
             Protocol- name = HCP11
        Mil Protocol = = 17:
             Protocol-name = "Upp"
        Ple:
            Protocol- name = "Va Rnown Protocol"
        Print (f" Protocol: EProtocol3")
       Print (f" Source 11: 2 Some _ iP3")
       Print (f"destination 1P: Edst-1P3")
       Print (" 11 & 50)
det main ():
   Sniff ( fale = foifi!, I'm = Packet - Callback, filter="1"
                                                 Stoge =0)
if _ name__ = " _ nain_ !!.
  main ()
output:
Photocol: TCP
Source IP: 51.132.193.65
Destination 1P; 19(3. 168-34.193
Protogy it CP
Source IP: 192.168.34.193
Detti nation 19:51.132.193.65
       thus implen artator of Packet Snelfing of
 clone uling Raw sackets
```