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		Packet sniffing		
15.	29/10/24	webilizer tool		

Completed

Palaniappa

Exp.no : 14

Date : 25/10/24

Packet Sniffing

Aim

write a code using RAW sockets to implement packet sniffing.

code:-

```
from scapy.all import sniff
from scapy.layers.inet import IP,TCP,UDP,ICMP
def. packet_callback(packet):
   if IP in packet [IP]
      ip_layer= packet[IP]
      protocol = 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)
```

```
def main()
    sniff ('Face='wifi, prn=packet_callback,
        Filter='IP', store=0)
if __name__ == "__main__":
    main()
```

Result

Thus the program is successfully executed and output is verified.