Ex No:

DATE: 22.10.24

PACKET SNIFFING

AIM

Implement packet sniffing using raw sockets

CODE

```
from scapy.all import sniff
from scapy.layers.inet import IP, TCP, UDP, ICMP

def packet_callback(packet):
    if IP in packet
        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 = "ICMP"
elif protocol == 17
    protocol_name = "UDP"

else:
    protocol_name = "unknown protocol"
```

```
print(f"protocol : {proto}")
print(f"source ip : {src_addr}")
print(f"destination ip : {dst_addr}")
print("-" * 50)

def main():
    sniff(iface='wifi', prn=packet_callback,
          filter="ip", store=0)
if __name__ == "__main__":
    main()
```

OUTPUT

protocol TCP
Source IP 20.247.184.142
Destination IP : 172.20.10.2
protocol : TCP
Source IP : 20.247.184.142
Dest IP : 172.20.247.184

protocol : TCP
Source IP 20.247.184.182
Dest IP 172.20.10.2

Result

Thus packet sniffing using RAW packet was implemented.

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