AIM:

Implement your packet sniffing

CODE:

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

def packet.callback (packet):
    if Ip is packet
ip-layer = packet [IP]
protocol = ip.layer proto
src_ip = ip.layer.src.
dest_ip = ip.layer.dest.

protocol = frame : "    "
    if protocol == 1
    protocol_name = "icmp"
elif protocol == 6
    protocol_name = "tcp"
else
    protocol-name = "unknown protocol"
    print ( f" protocol: { protocol-name}")
    print ( f "source IP : { src_ip}")
    print (" f "Destination IP: {dest ip}")
    print ("-" * 50)

def main():
    sniff (iface = "wi-fi", pff = packet.
    callback, filter = "ip", store = 0)
```

```
if name == "main");
main().
```

Output :-

Protocol : TCP
Source Ip: 20.247.184.143.
Destination Ip : 172.20.10.2

Result :-

Thus the packet sniffing has been
implemented successfully and verified.