Ex: 14 packet sniffing

Aim
write a code using Scapy module to implement packet sniffing

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

def packet_callback(packet):
    if IP in packet:
        IP_layer = packet.proto
        src_IP = IP_layer.src
        def_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 protoc
```

```
Print(f"Protocol: {Protocol_name}")
Print(f"Source IP: {Src_IP}")
Print("Destination IP: {Dest_IP}")
Print("-"*50)

def main():
    sniff(face="Wi-Fi", prn=packet_callback,
          filter="ip", store=0)
if __name__ == "main":
    main()
```

Output:

```
Protocol: TCP
Source IP: 20.247.164.142
Destination IP: 172.20.10.2
Protocol: TCP
Source IP: 20.247.164.142
Destination: IP. 172.20.10.2
```

Result:

Thus the Packet Sniffing program is successfully executed