AIM :

To implement a code using RAW socket to implement packet sniffing.

Program :

```
from scapy.all import sniff
from scapy_layer_inet
import IP, TCP, UDP, ICMP
def packet_callback (packet):

    if IP in packet:
    IP_layer = packet [IP]
    protocol = IP_layer.proto

    protocol_name =" "
    if protocol == 1:
        protocol_name = "ICMP"
    elif protocol == 17:

    else
        protocol_name = "unknown protocol"
```

```python
printf ("protocol : { protocol_name }")
print (f "source IP : [ src_ip }")
print ("- " * 50)

def main ():
    sniff (iface = "wifi", prn = packet_
                                    callback,
                        filter = "ip".

        store = 01)

if _name_ == "_main_":
    main ()
```

Result :

Thus the packet sniffing program
was executed.