

(19)

Ans: Implemented your packet sniffing

Code:

```
from copy import copy
def packet_callback(packet):
    if packet[0] < 0:
        return
    ip = packet[1]
    protocol = ip[0]
    src_ip = ip[1]
    dest_ip = ip[2]
    protocol = protocol
    if protocol == 21:
        protocol_name = "ftp"
    else if proto == 6:
        protocol_name = "tcp"
    else:
        protocol_name = "udp"
```

```
def main():
    # Create a packet sniffer
    sniffer = PacketSniffer()
    # Start sniffing
    sniffer.start_sniffing()
    # Stop sniffing
    sniffer.stop_sniffing()
    # Print the results
    print("Sniffing results:")
    for packet in sniffer.packets:
        print(packet)
```

```
source IP: 20.297.184.143
dest IP: 172.20.10.2
```

that sniffing has been