***TASK 1.***

***from scapy.all import sniff***

***# Function to process captured packets***

***def packet\_callback(packet):***

***print(packet.summary()) # Print a summary of the packet***

***if packet.haslayer('IP'):***

***ip\_layer = packet['IP']***

***print(f"Source IP: {ip\_layer.src}, Destination IP: {ip\_layer.dst}")***

***# Start sniffing on the specified interface***

***def start\_sniffer(interface):***

***print(f"Sniffing on {interface}...")***

***sniff(iface=interface, prn=packet\_callback, store=0)***

***if \_\_name\_\_ == "\_\_main\_\_":***

***# Specify the network interface to sniff on***

***network\_interface = "eth0" # Change to your network interface (e.g., "wlan0" for Wi-Fi)***

***start\_sniffer(network\_interface).***