**PYTHON CODE**

import os

from scapy.all import sniff, wrpcap

def packet\_handler(packet, folder\_path):

if packet.haslayer('IP'):

ip\_packet = packet['IP']

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

wrpcap(f"{folder\_path}/captured\_packets.pcap", packet, append=True)

def main():

folder\_name = input("Enter the folder name to save captured packets: ")

ip\_address = input("Enter the IP address to capture packets from: ")

try:

# Create the folder to save captured packets

os.makedirs(folder\_name, exist\_ok=True)

# Use sniff() function to capture packets

sniff(iface='eth0', prn=lambda packet: packet\_handler(packet, folder\_name), filter=f"host {ip\_address}")

except KeyboardInterrupt:

print("Capture stopped by the user.")

except Exception as e:

print(f"An error occurred: {str(e)}")

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

main()