

Exercise 1:

```
## define a method that filters out IP packets, and prints its Source, and Destination
```

```
>>def myMethod(packet)
    if packet.haslayer(IP)
        print('\n\nCame from: ', packet[IP].src )
        print('Going to : ', packet[IP].dst )
```

```
## sniff 20 packets from the default network
```

```
>> sniff(count=20, prn= myMethod)
```

Please see screenshots:

A screenshot of a Windows desktop environment. In the foreground, a black terminal window titled "Scapy v2.4.3" is open. The terminal shows a Python script being executed. The script starts with a sniffing command: `>>> sniff(count=20, prn= myMethod)`. This is followed by three network packets being captured, each displaying source and destination IP addresses: `Came From: 192.168.1.138` and `Going to : 192.168.1.1`. Then, a custom method `myMethod` is defined to process the captured packets, printing their details. The output shows three packets: two ICMP Echo (ping) requests from 192.168.1.138 to 192.168.1.1, and one UDP packet from 192.168.1.138 to 192.168.1.1. The terminal prompt is currently at `>>> |`. In the background, a Google Chrome browser window is partially visible, showing a search bar and some navigation icons. The Windows taskbar at the bottom displays various application icons, including File Explorer, Edge, and several utility programs, along with the system clock showing 2:15 PM on 11/5/2023.