

Screenshot of exchange:

15	0.027468	D-LinkIn_e0:5d:e1	Broadcast	ARP	60 Who has 192.168.1.14? Tell 192.168.1.1
16	0.027515	Chongqin_4c:e8:8d	D-LinkIn_e0:5d:e1	ARP	42 192.168.1.14 is at c0:b5:d7:4c:e8:8d

I) `$ python analysis_pcap_arp.py assignment4_my_arp.pcap`

```
ARP Request
Hardware Type: 0001
Protocol Type: 0800
Hardware Size: 06
Protocol Size: 04
Opcode: 0001
Sender MAC Address: 3c:1e:04:e0:5d:e1
Sender IP Address: 192:168:1:1
Target MAC Address: 00:00:00:00:00:00
Target IP Address: 192:168:1:14

ARP Response
Hardware Type: 0001
Protocol Type: 0800
Hardware Size: 06
Protocol Size: 04
Opcode: 0002
Sender MAC Address: c0:b5:d7:4c:e8:8d
Sender IP Address: 192:168:1:14
Target MAC Address: 3c:1e:04:e0:5d:e1
Target IP Address: 192:168:1:1
```

II) The IP address of my router is 192:168:1:1 and the MAC address of my router is 3c:1e:04:e0:5d:e1. ARP requests use the IP and MAC address of a router to try to find another machine using the same router. Because the output of the program displays the address I mentioned as the Sender MAC and Sender IP Addresses, this is how I can tell that these are the MAC and IP addresses of my router.