## Lab 6

Name: Mohammad Alhomidan **ID:** 2510431

My IP 192.168.0.5

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_ D X
 C:\windows\system32\cmd.exe
 Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.
 C:\Users\user>ipconfig
 Windows IP Configuration
 Wireless LAN adapter Wireless Network Connection 2:
    Media State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Ethernet adapter Bluetooth Network Connection:
    Media State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Wireless Network Connection:
    : 255.255.255.0
: fe80::3e37:86ff:fede:1d73%12
192.168.0.1
    Ethernet adapter Local Area Connection:
    Media State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
 Tunnel adapter isatap.<05DA48C7-5141-437A-BCED-1F29AF2DE6D1>:
    Media State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Tunnel adapter Local Area Connection* 12:
    Connection-specific DNS Suffix .: IPv6 Address.....: 2001:0:5cf2:8c02:20eb:c73:3f57:fffa Link-local IPv6 Address ....: fe80::20eb:c73:3f57:fffax19 Default Gateway ....:
 Tunnel adapter isatap.{6384ADFC-9F59-41B6-A461-1FCA8BD0BE49}:
    Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Tunnel adapter isatap.{CE98C002-B144-42B7-8B3F-807EE0392342}:
    Media State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
                                                                                             6:08 PM
```

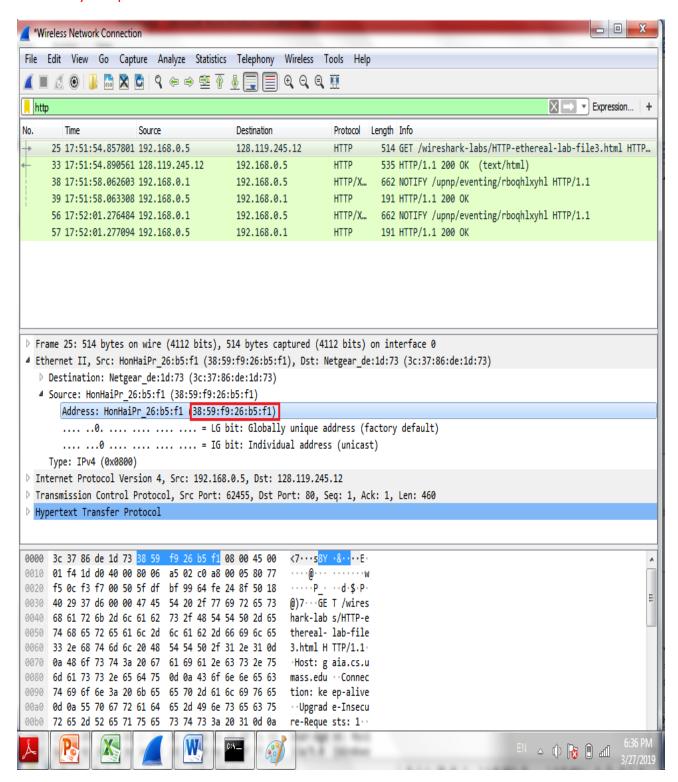






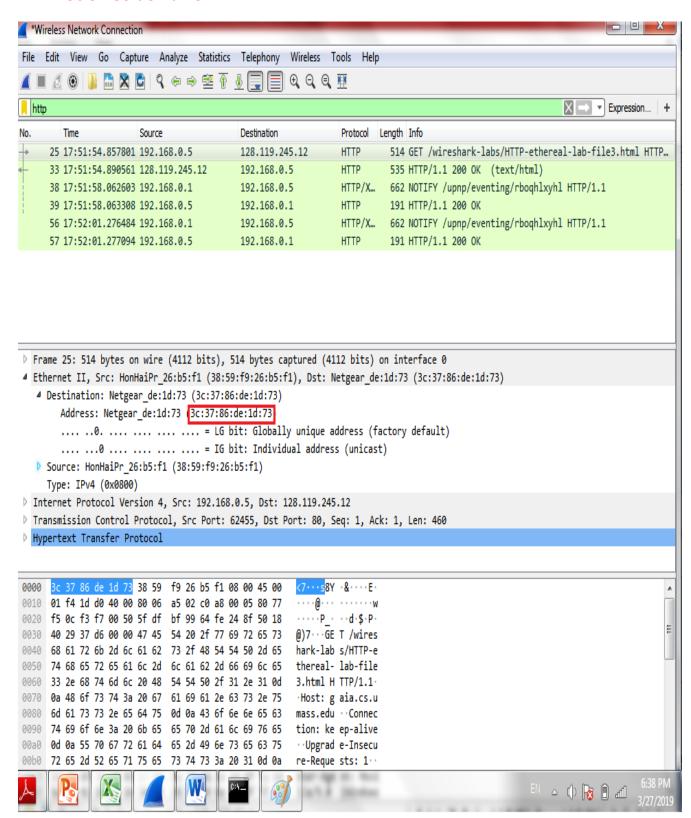
## 1. What is the MAC address from your computer?

My computer mac address 38:59:f9:26:b5:f1



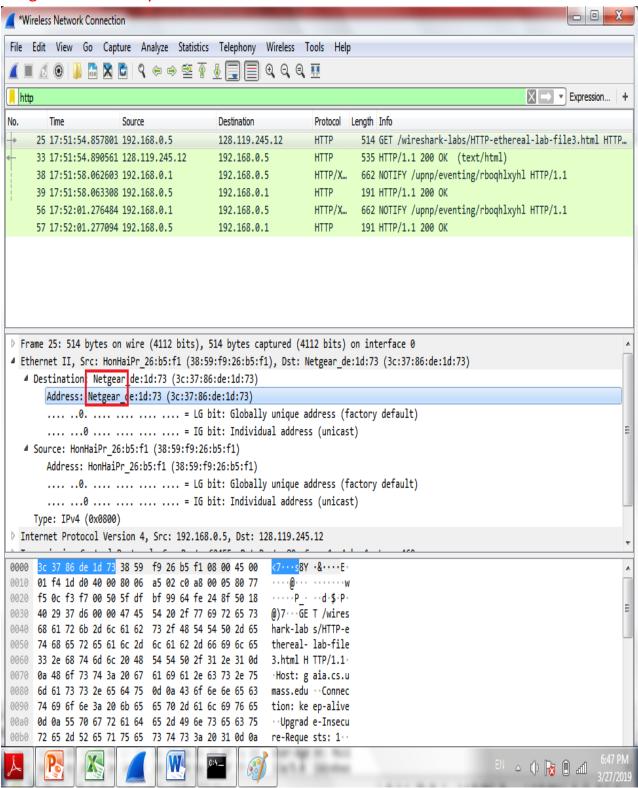
## 2. What is the destination MAC address?

3c:37:86:de:1d:73



3. What device has the MAC address shown in the destination?

Netgear which is my router.

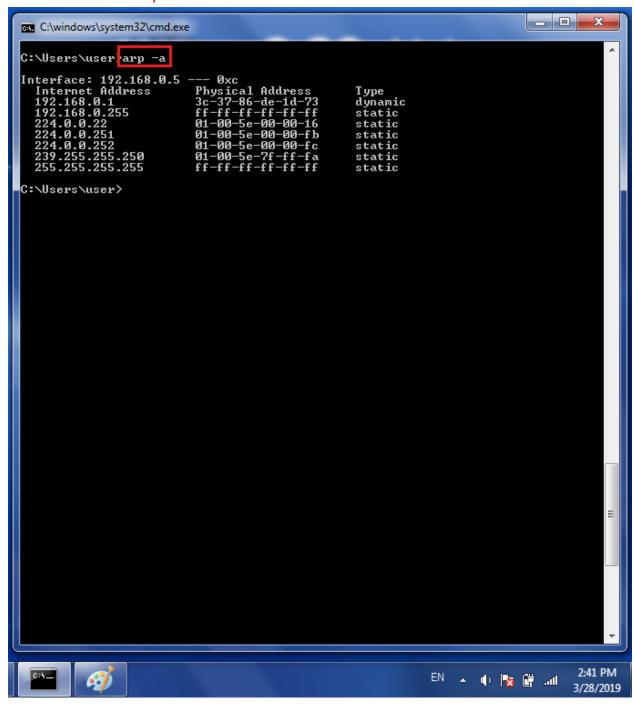


4. Explain the relationship between the destination MAC address and the destination IP address.

There are totally different. MAC address is unique and hard coded by manufacturer. The ARP stores the MAC addresses for all devices that connect to the router. The destination IP address is the router's IP.

5. Using the terminal (cmd in Windows, Terminal in mac), run a command to display your full ARP list table. (Find out what the command is, and print a full screen shot of your result.)

The command is arp -a



C:\Users\user\Desktop\Marymount University\IT-520\Sixth lab.pcapng 73 total packets, 6 shown

No. Time Source Destination Protocol Length Info 33 17:51:54.890561 128.119.245.12 192.168.0.5 HTTP 535 HTTP/1.1 200 OK (text/html) Frame 33: 535 bytes on wire (4280 bits), 535 bytes captured (4280 bits) on interface 0 Ethernet II, Src: Netgear\_de:1d:73 (3c:37:86:de:1d:73), Dst: HonHaiPr\_26:b5:f1 (38:59:f9:26:b5:f1) Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.0.5 Transmission Control Protocol, Src Port: 80, Dst Port: 62455, Seq: 4381, Ack: 461, Len: 481 [4 Reassembled TCP Segments (4861 bytes): #29(1460), #30(1460), #32(1460), #33(481)] Hypertext Transfer Protocol Line-based text data: text/html (98 lines)