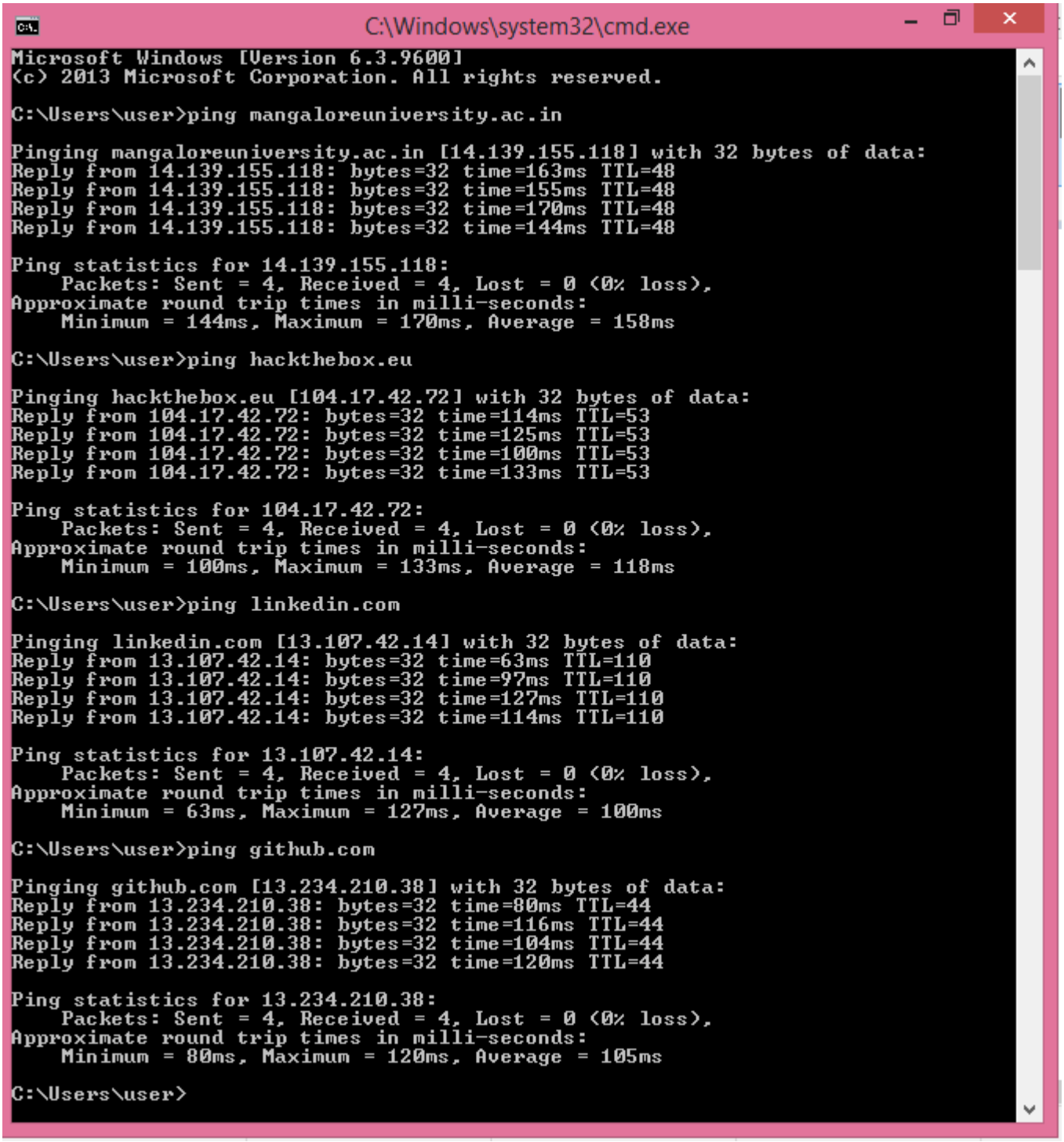
PROJECT : 1

DATE : 20-09-2021

TOPIC : Finding and Classifying IP address.

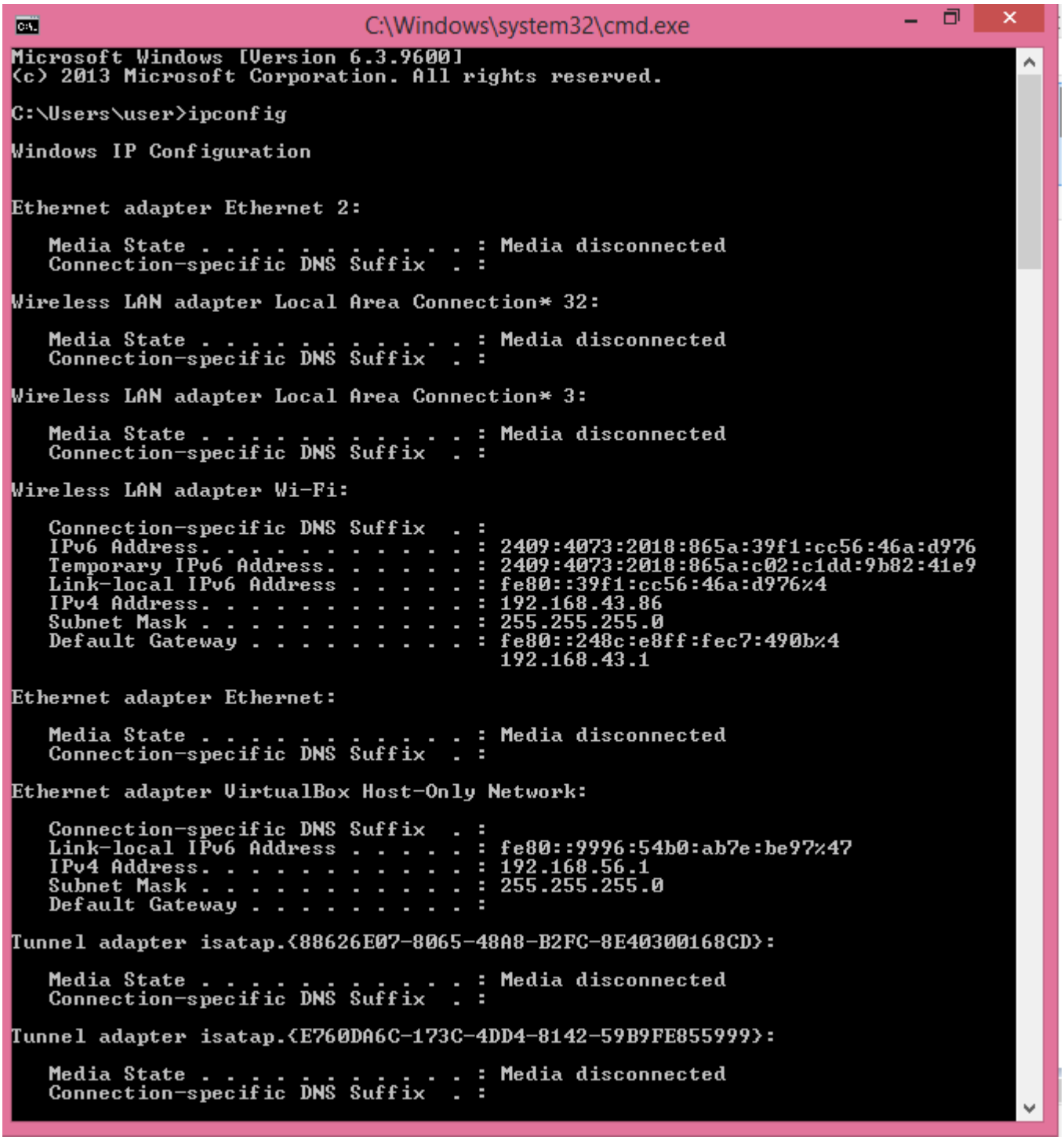
1. Pick 5 Websites, find its IP address, give the class of ip address it belongs.



CLASS	USAGE	START ADDRESS	END ADDRESS
A	Consumer	0.0.0.0	127.255.255.255
B	Consumer	128.0.0.0	191.255.255.255
C	Consumer	192.0.0.0	223.255.255.255
D	Multicast	224.0.0.0	239.255.255.255
E	Reserved	240.0.0.0	255.255.255.255

Website	IP address	CLASS
mangaloreuniversity.ac.in	14.139.155.118	A
hackthebox.eu	104.17.42.72	A
linkedin.com	13.107.42.14	A
github.com	13.234.210.38	A

2. Check your laptop's IP address and subnet mask, define the Network portions and Host portions in the above format.

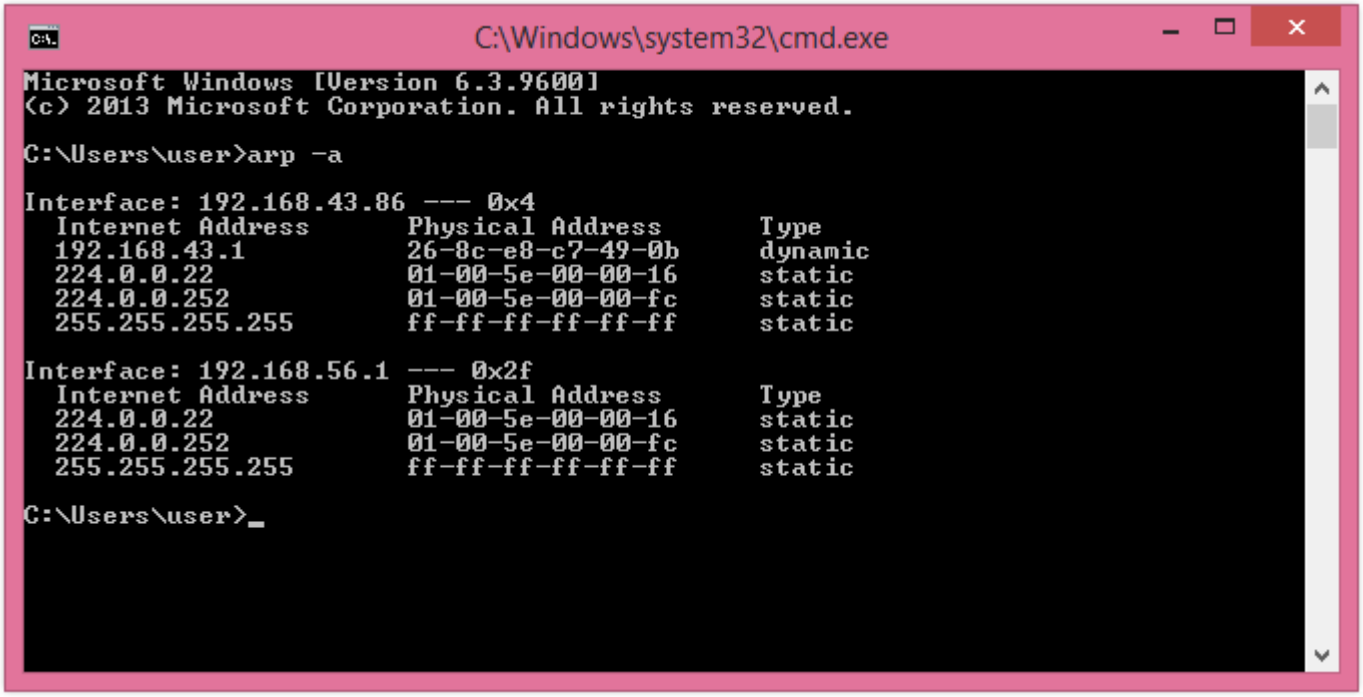


Laptop's IP address is 192.168.43.86 (Preferred, can be changed by administrator)

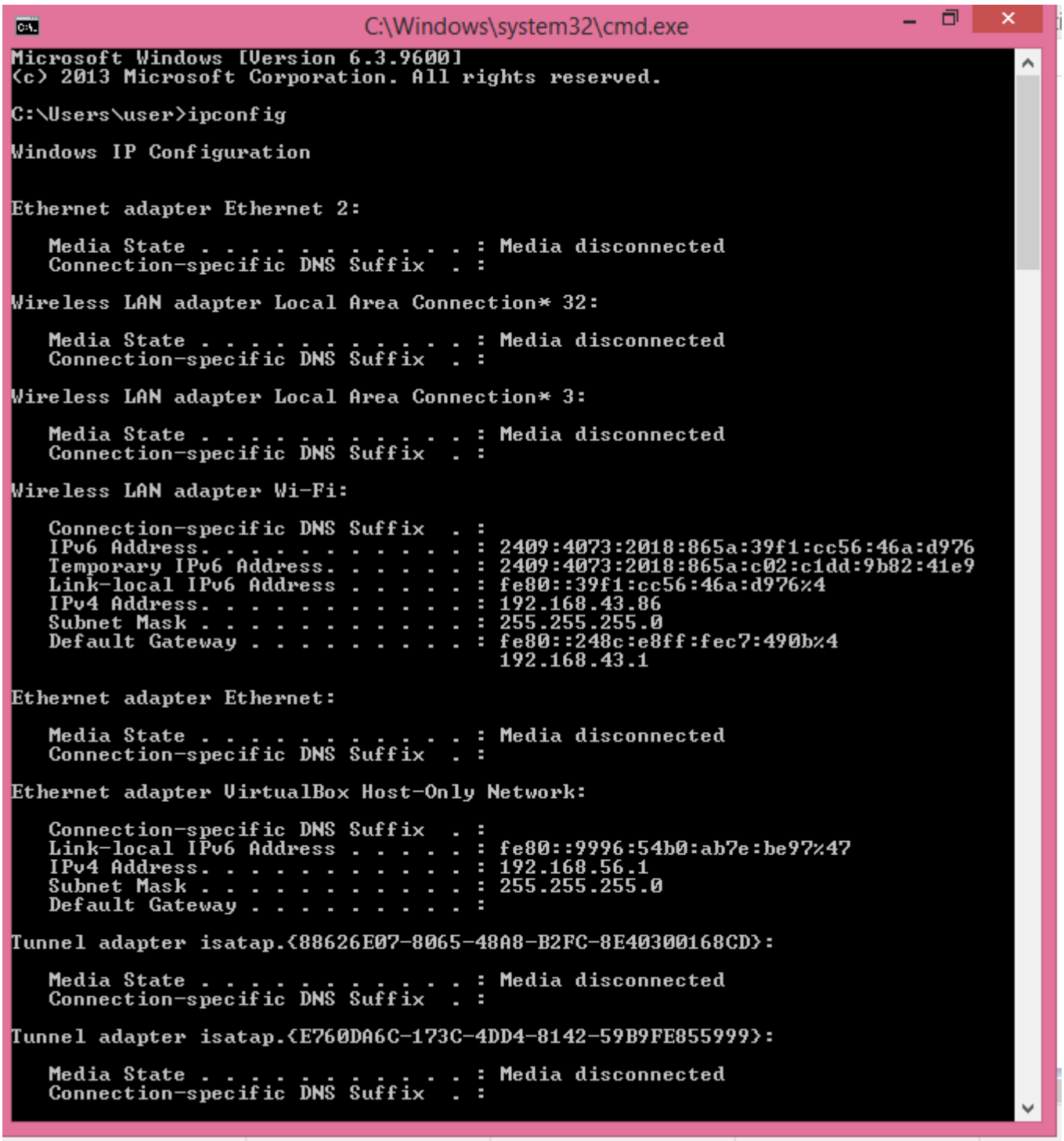
The Subnet mask is 255.255.255.0

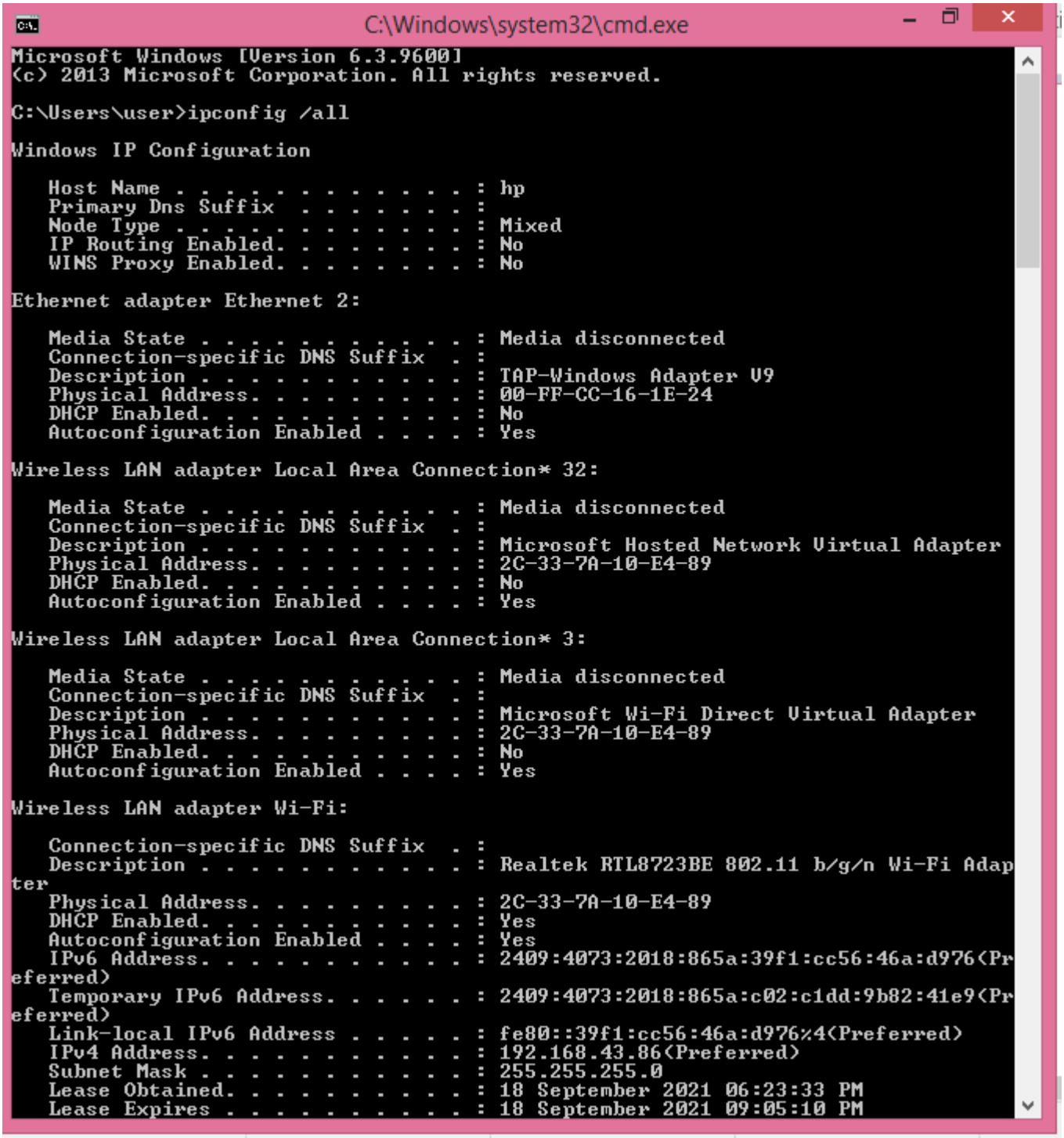
So the Network portion is 192.168.43 and Host portion is 86.

3. Check your arp cache and provide screenshot of the entry.



4. Identify your NIC's MAC address and provide the screenshot.




C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.
C:\Users\user>ipconfig /all
Windows IP Configuration
Host Name . . . . . : hp
Primary Dns Suffix . . . . . :
Node Type . . . . . : Mixed
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
Ethernet adapter Ethernet 2:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : TAP-Windows Adapter V9
Physical Address. . . . . : 00-FF-CC-16-1E-24
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Wireless LAN adapter Local Area Connection* 32:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Hosted Network Virtual Adapter
Physical Address. . . . . : 2C-33-7A-10-E4-89
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Wireless LAN adapter Local Area Connection* 3:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
Physical Address. . . . . : 2C-33-7A-10-E4-89
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Wireless LAN adapter Wi-Fi:
Connection-specific DNS Suffix . :
Description . . . . . : Realtek RTL8723BE 802.11 b/g/n Wi-Fi Adapter
Physical Address. . . . . : 2C-33-7A-10-E4-89
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IPv6 Address. . . . . : 2409:4073:2018:865a:39f1:cc56:46a:d976(Preferred)
Temporary IPv6 Address. . . . . : 2409:4073:2018:865a:c02:c1dd:9b82:41e9(Preferred)
Link-local IPv6 Address . . . . . : fe80::39f1:cc56:46a:d976%4(Preferred)
IPv4 Address. . . . . : 192.168.43.86(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : 18 September 2021 06:23:33 PM
Lease Expires . . . . . : 18 September 2021 09:05:10 PM

C:\Windows\system32\cmd.exe
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : 18 September 2021 06:23:33 PM
Lease Expires . . . . . : 18 September 2021 09:05:10 PM
Default Gateway . . . . . : fe80::248c:e8ff:fec7:490b%4
192.168.43.1
DHCP Server . . . . . : 192.168.43.1
DHCPv6 IAID . . . . . : 70005626
DHCPv6 Client DUID. . . . . : 00-01-00-01-1C-13-D6-A4-38-63-BB-A9-75-18
DNS Servers . . . . . : 192.168.43.1
NetBIOS over Tcpip. . . . . : Disabled
Ethernet adapter Ethernet:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Realtek PCIe FE Family Controller
Physical Address. . . . . : 38-63-BB-A9-75-18
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Ethernet adapter VirtualBox Host-Only Network:
Connection-specific DNS Suffix . :
Description . . . . . : VirtualBox Host-Only Ethernet Adapter
Physical Address. . . . . : 0A-00-27-00-00-2F
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::9996:54b0:ab7e:be97%47(Preferred)
IPv4 Address. . . . . : 192.168.56.1(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 789184551
DHCPv6 Client DUID. . . . . : 00-01-00-01-1C-13-D6-A4-38-63-BB-A9-75-18
DNS Servers . . . . . : fec0:0:0:ffff::1%1
fec0:0:0:ffff::2%1
fec0:0:0:ffff::3%1
NetBIOS over Tcpip. . . . . : Disabled
Tunnel adapter isatap.{88626E07-8065-48A8-B2FC-8E40300168CD}:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft ISATAP Adapter #3
Physical Address. . . . . : 00-00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Tunnel adapter isatap.{E760DA6C-173C-4DD4-8142-59B9FE855999}:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft ISATAP Adapter
Physical Address. . . . . : 00-00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes