

# Computer Networks Lab

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**20P-0147**

## Lab Task #01

### Task 1 :

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19043.1889]
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C:\Users\exam>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::212c:d317:83ca:da12%17
    IPv4 Address. . . . . : 172.16.4.146
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 172.16.4.254

Ethernet adapter VMware Network Adapter VMnet1:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::7d8b:ee83:5170:c44b%15
    IPv4 Address. . . . . : 192.168.121.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 

Ethernet adapter VMware Network Adapter VMnet8:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::8bb:af89:8229:8cc5%19
    IPv4 Address. . . . . : 192.168.3.1
    Subnet Mask . . . . . : 255.255.255.0
```

### Task: 2

- a: 172.17.1.212
- b: 172.17.1.222
- c: 172.17.1.222

### **Task: 3**

1: Open your cmd prompt and write “ipconfig /all”.

```
C:\Windows\system32\cmd.exe
C:\Users\exam>ipconfig /all

Windows IP Configuration

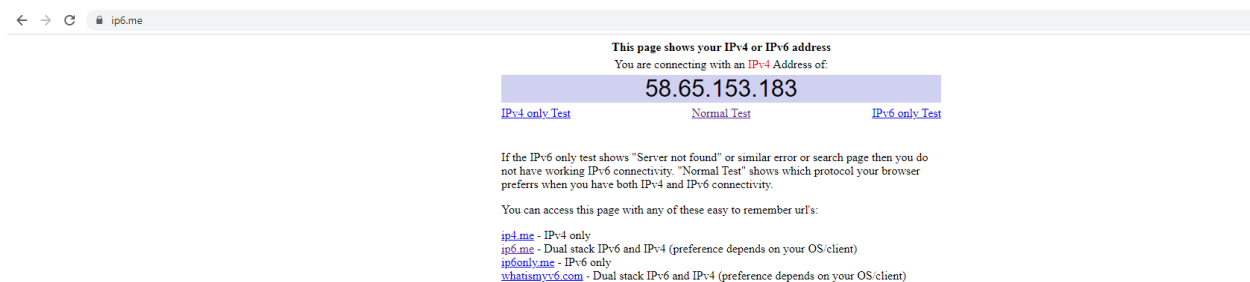
Host Name . . . . . : KHLAB-46
Primary Dns Suffix . . . . . : nu.edu.pk
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : nu.edu.pk

Ethernet adapter Ethernet:

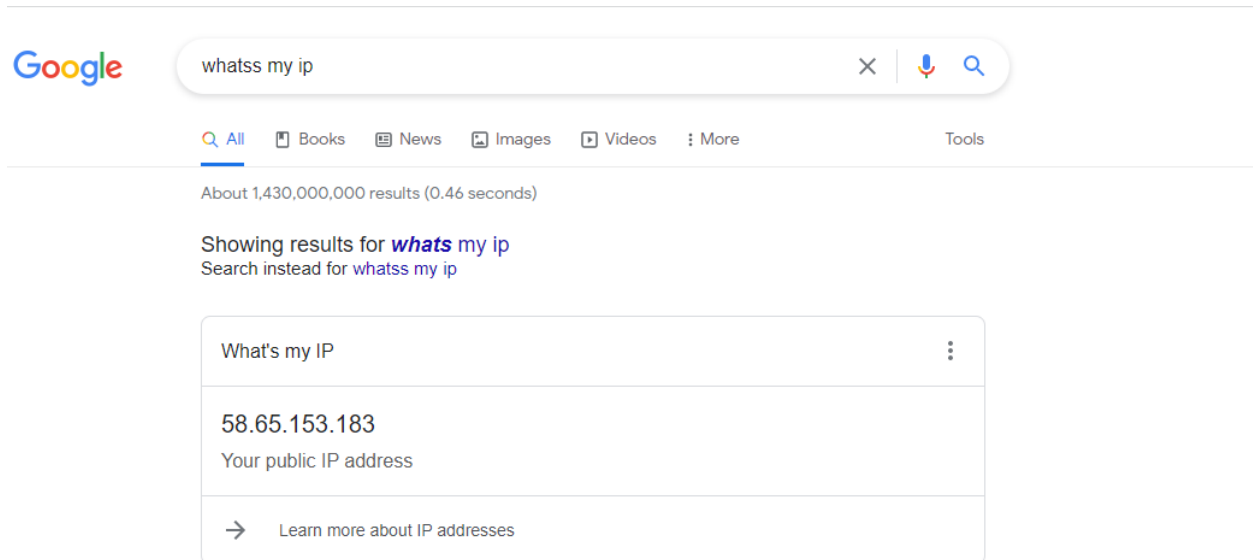
Connection-specific DNS Suffix . : 
Description . . . . . : Intel(R) Ethernet Connection I217-V
Physical Address. . . . . : 80-FA-5B-1C-1F-80
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::212c:d317:83ca:da12%17(Preferred)
IPv4 Address. . . . . : 172.16.4.146(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 172.16.4.254
DHCPv6 IAID . . . . . : 209779291
DHCPv6 Client DUID. . . . . : 00-01-00-01-28-C7-A1-87-80-FA-5B-1C-1F-80
DNS Servers . . . . . : 172.16.4.253
                        8.8.8.8
NetBIOS over Tcpip. . . . . : Enabled

Ethernet adapter VMware Network Adapter VMnet1:
```

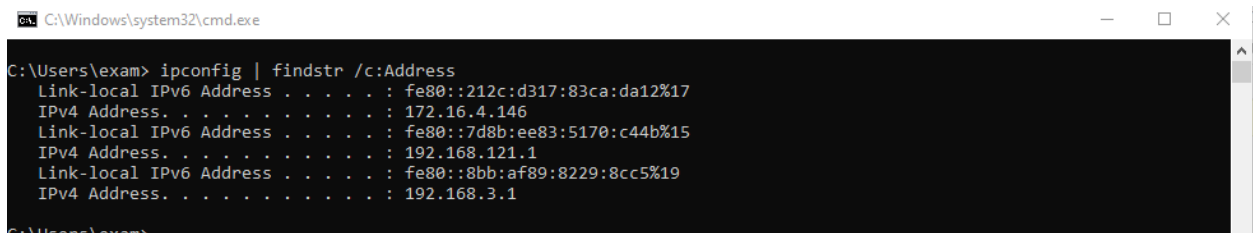
2: Open your Browser and write “ip6.me” (Public IP)



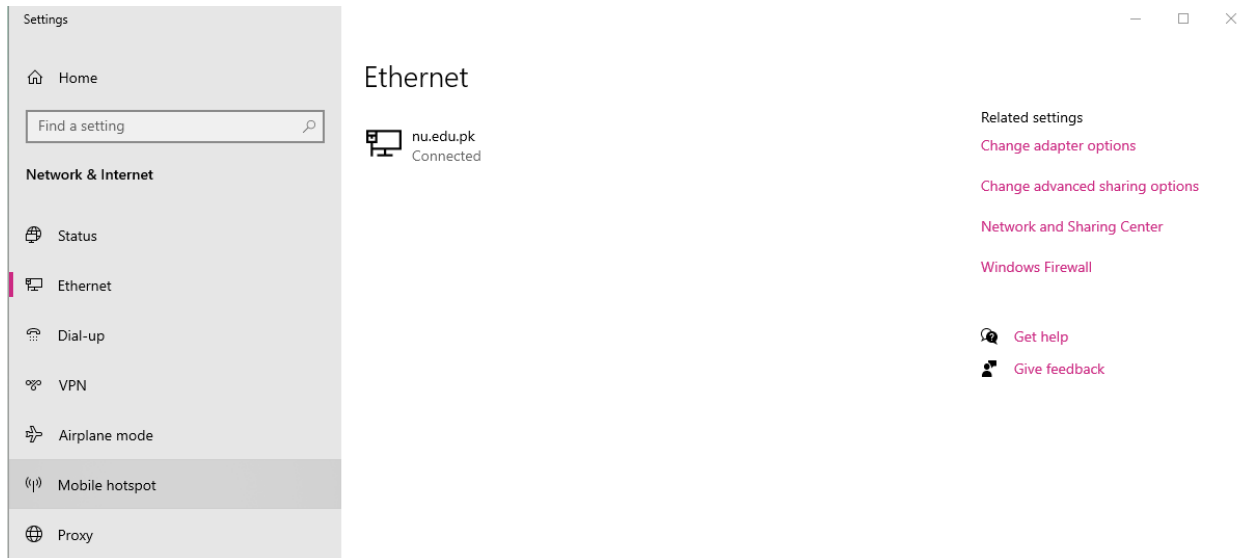
3: Open your Browser and write “Whats my IP”. (Public IP)



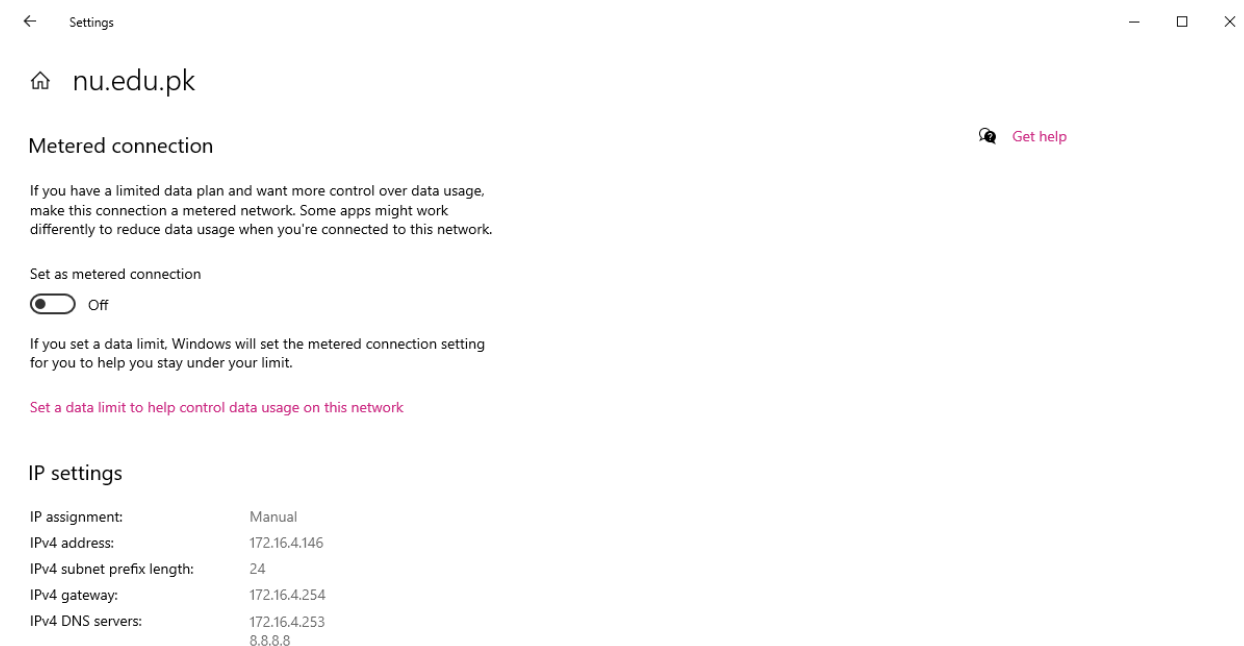
4: Open your command prompt and write “ ipconfig | findstr /c:Address”.



## 5: Go to Ethernet Settings



Now click on the network you have connected at the moment.



6: Open your control panel and go network and sharing center and then click on change adapter setting and and lastly click on details.

