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Class : 5-A

Roll no : P20-0560

Lab 01

Task 1 :

Task 1: Using Ipconfig retrieve TCP/IP information for your computer. Write down the following information:

- a. IP address
- b. Subnet mask:
- c. Default gateway:

SOLUTION : (Wireless)

Open command prompt and then write ipconfig and then press enter you will find the detail about your network just go to Wireless Lan Adapter here you will see Ipv4 Address , subnet Mask , And default gateway.

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Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix  . : 
Link-local IPv6 Address . . . . . : fe80::bc68:e3f:aa37:a679%16
IPv4 Address. . . . . : 172.17.0.135
Subnet Mask . . . . . : 255.255.252.0
Default Gateway . . . . . : 172.17.0.2

Ethernet adapter Bluetooth Network Connection:
```

Ipv4 Address.....172.17.0.135
Subnet Mask.....255.255.252.0
Default Gateway.....172.17.0.2

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Task 2:

Task2: Record a couple of IP addresses of your nearby hosts.

- a. IP address
- b. IP address
- c. IP address

Solution :

- a) 172.17.0.114 (Razz)
- b) 172.17.0.78 (Sharif)
- c) 172.17.1.156 (Awais)

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Task 3:

Task3: Find your IP address in at least 6 different ways.

Solution :

- 1) Ipconfig (WIRELESS)

Open command prompt and then write ipconfig/all in command prompt and press enter

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Connection-specific DNS Suffix . : 
Description . . . . . : Realtek RTL8821CE 802.11ac PCIe Adapter
Physical Address. . . . . : 5C-3A-45-93-F8-3B
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::bc68:e3f:aa37:a679%16(Preferred)
IPv4 Address. . . . . : 172.17.0.135(Preferred)
Subnet Mask . . . . . : 255.255.252.0
Lease Obtained. . . . . : Thursday, September 1, 2022 8:11:31 AM
Lease Expires . . . . . : Thursday, September 1, 2022 10:15:31 AM
Default Gateway . . . . . : 172.17.0.2
DHCP Server . . . . . : 172.17.0.2
DHCPv6 IAID . . . . . : 173816389
DHCPv6 Client DUID. . . . . : 00-01-00-01-29-FA-0E-8E-84-2A-FD-6F-E7-83
DNS Servers . . . . . : 8.8.8.8
                        115.186.188.3
                        103.55.68.74
NetBIOS over Tcpip. . . . . : Enabled

Ethernet adapter Bluetooth Network Connection:

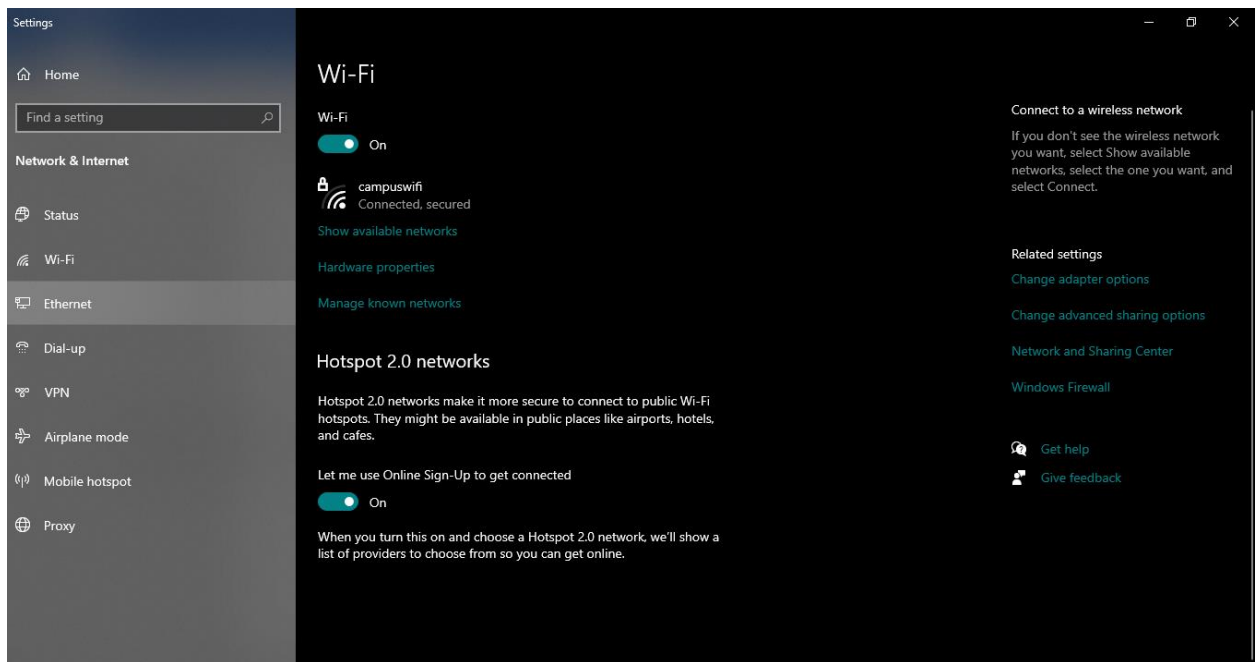
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : 
Description . . . . . : Bluetooth Device (Personal Area Network)
Physical Address. . . . . : 5C-3A-45-93-F8-3C
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

C:\Users\Abubaker Khan>

```

2) Setting App (WIRELESS)

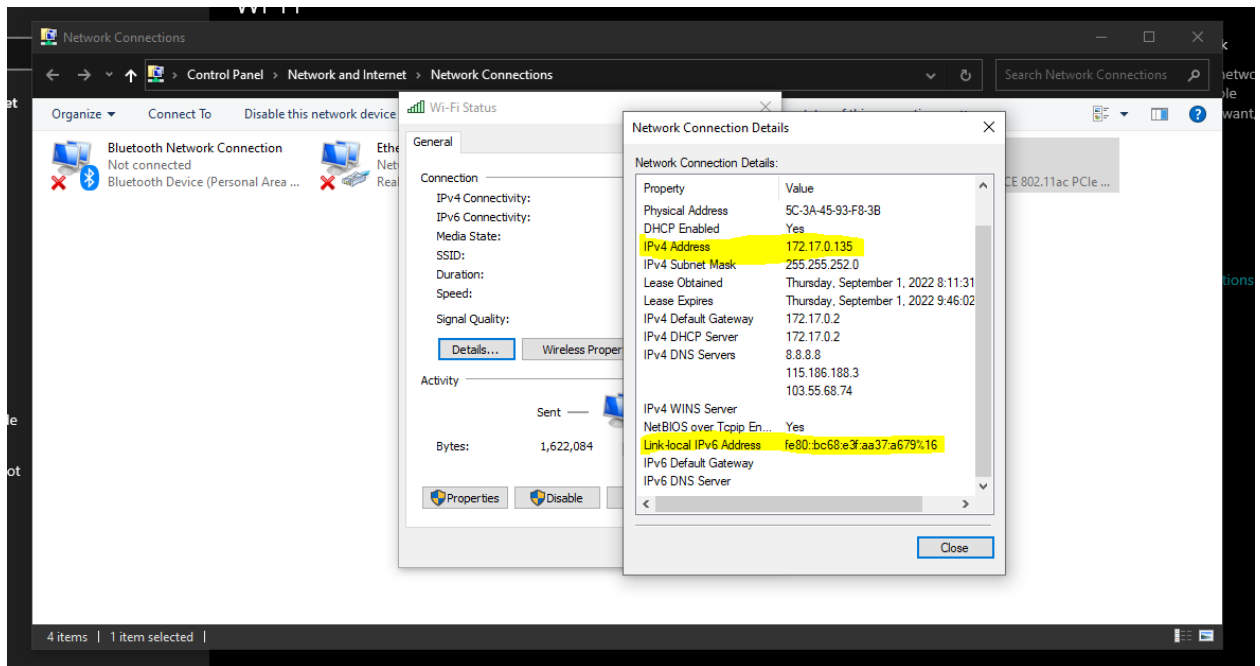
Open wifi then click on the way with which you are connected



IPv4 address 172.17.0.135

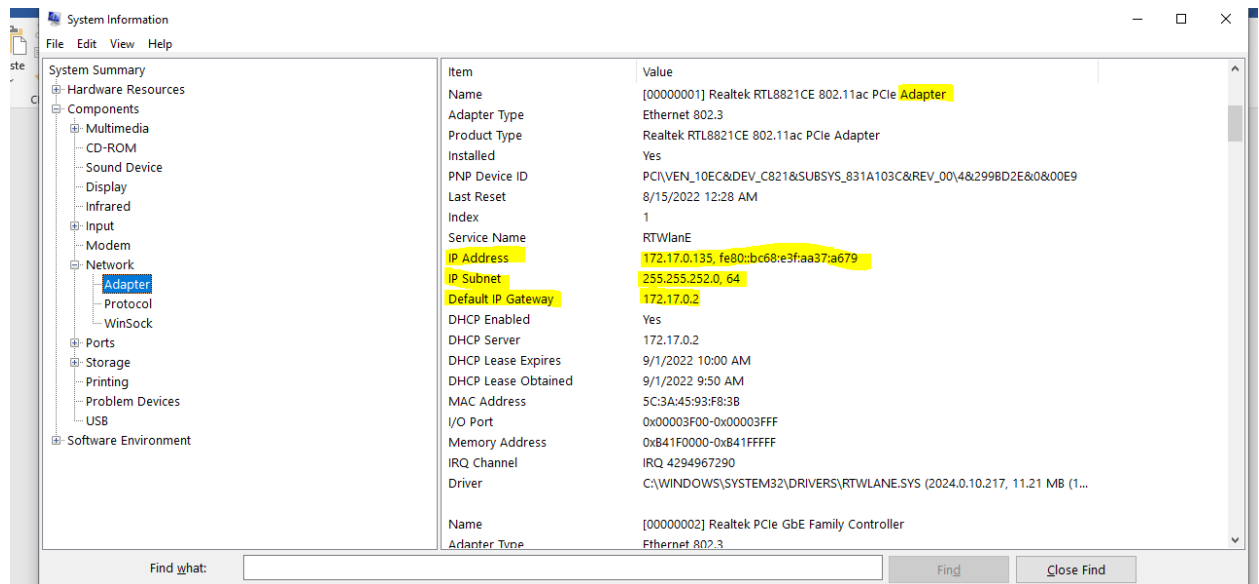
3) Change Adaptor setting (Wireless)

Open control panel then click on network and sharing and then click on wifi detail you will see the ip address there.



4) System Information (Wireless)

Open System Information in your computer then expand components then again expand network then click on adaptor.



IP Address 172.17.0.135

IP Subnet 255.255.252.0

Default IP Gateway 172.17.0.2

5) PowerShell (Wireless)

In powershell write gip and then press enter

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Abubaker Khan> gip

InterfaceAlias      : VirtualBox Host-Only Network
InterfaceIndex      : 41
InterfaceDescription : VirtualBox Host-Only Ethernet Adapter
IPv4Address          : 192.168.56.1
IPv6DefaultGateway   :
IPv4DefaultGateway   :
DNSServer            : fec0:0:0:ffff::1
                     : fec0:0:0:ffff::2
                     : fec0:0:0:ffff::3

InterfaceAlias      : Wi-Fi
InterfaceIndex      : 16
InterfaceDescription : Realtek RTL8821CE 802.11ac PCIe Adapter
NetProfile.Name      : campuswifi
IPv4Address          : 172.17.0.135
IPv6DefaultGateway   :
IPv4DefaultGateway   : 172.17.0.2
DNSServer            : 8.8.8.8
                     : 115.186.188.3
                     : 103.55.68.74

InterfaceAlias      : Bluetooth Network Connection
InterfaceIndex      : 10
InterfaceDescription : Bluetooth Device (Personal Area Network)
NetAdapter.Status    : Disconnected

InterfaceAlias      : Ethernet
InterfaceIndex      : 12
InterfaceDescription : Realtek PCIe GbE Family Controller
NetAdapter.Status    : Disconnected

PS C:\Users\Abubaker Khan>

```

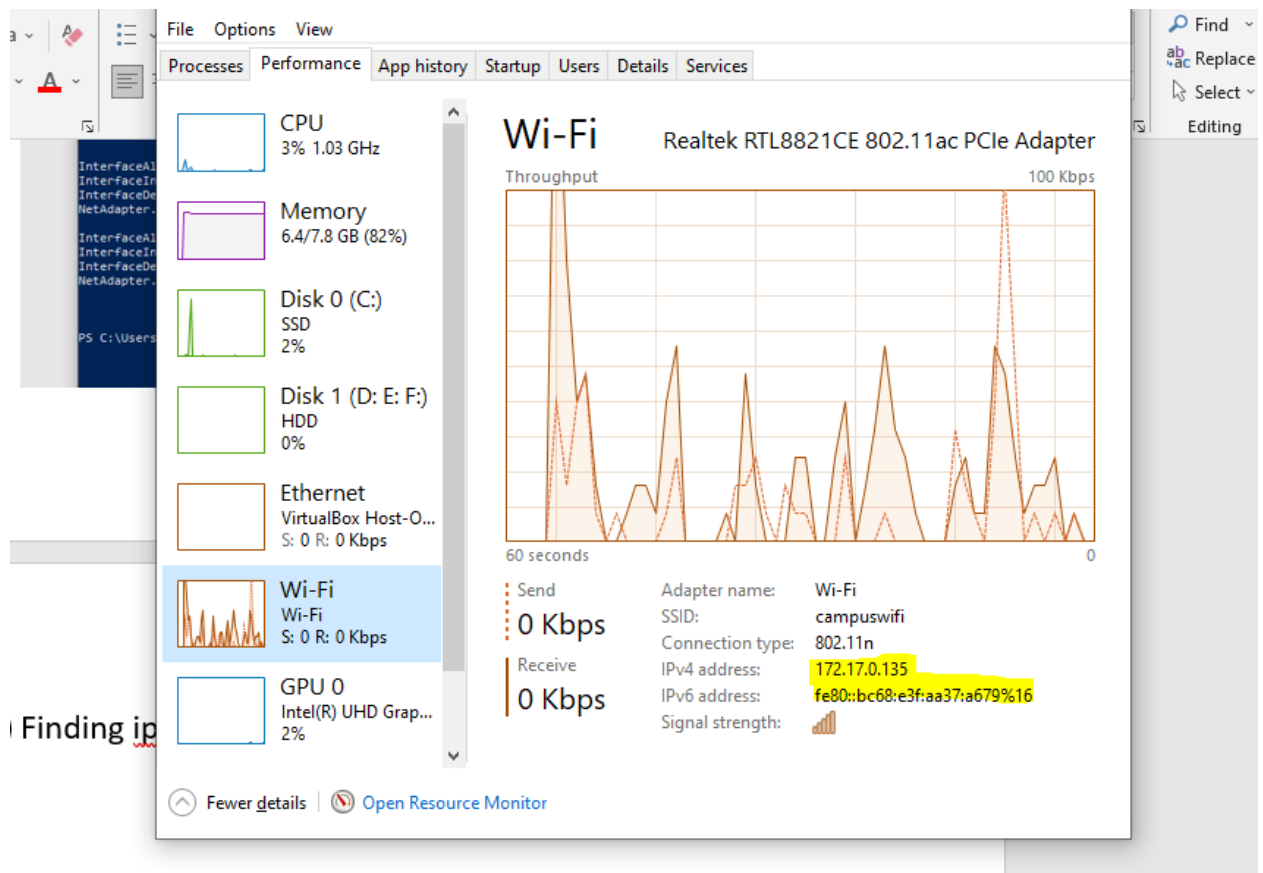
```

IPv4Address      : 172.17.0.135
IPv6DefaultGateway :
IPv4DefaultGateway : 172.17.0.2
DNSServer        : 8.8.8.8
                  115.186.188.3
                  103.55.68.74

```

6) Finding ip address in Task manager (Wireless)

Open task manager and then click on performance and then click on wifi you will see ip address



IPv4Address 172.17.0.135

IPv6Address.....fe80::bc68:e3f:aa37:a679%16

THANKYOU !!