

Izaan Mohtashim
P20-0613
Sec 5A

Lab Task 1

Question 1

```
Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::8fd:f2af:afcc:8104%20
    IPv4 Address. . . . . : 172.17.0.81
    Subnet Mask . . . . . : 255.255.252.0
    Default Gateway . . . . . : 172.17.0.2
```

IPv4: 172.17.0.81
Sub net Mask: 255.255.252.0
Default Gateway: 172.17.0.2

Question 2

IP address 1 : 172.17.1.58
IP address 2 : 172.17.0.100
IP address 3 : 172.17.0.124

Question 3

=> 1st way is to write ipconfig /all so it will display all the details.

```
Wireless LAN adapter Wi-Fi:

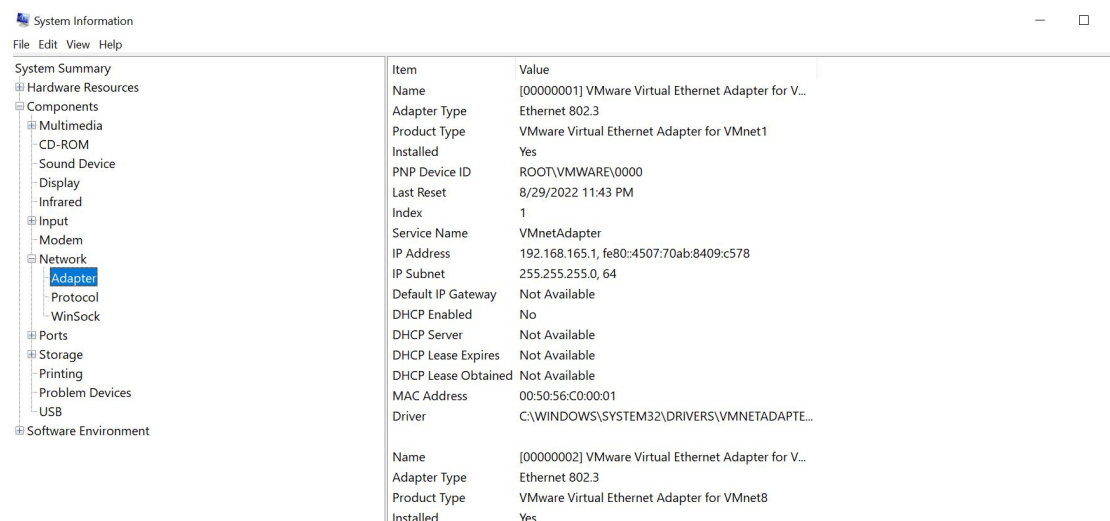
    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::8fd:f2af:afcc:8104%20
    IPv4 Address. . . . . : 172.17.0.81
    Subnet Mask . . . . . : 255.255.252.0
    Default Gateway . . . . . : 172.17.0.2
```

=> 2nd way is to go to wifi settings and there you will find.

Properties

SSID:	campuswifi
Protocol:	Wi-Fi 4 (802.11n)
Security type:	WPA2-Personal
Network band:	2.4 GHz
Network channel:	1
Link speed (Receive/Transmit):	243/243 (Mbps)
Link-local IPv6 address:	fe80::8fd:f2af:afcc:8104%20
IPv4 address:	172.17.0.81
IPv4 DNS servers:	8.8.8.8 115.186.188.3 103.55.68.74
Manufacturer:	Intel Corporation
Description:	Intel(R) Dual Band Wireless-AC 8260

=> 3rd way is to go system information then go to components and then click Networks.



The screenshot shows the Windows System Information window. The left sidebar is expanded to 'Components' > 'Network' > 'Adapter'. The main pane displays a list of network adapters. The first adapter is selected, showing the following details:

Item	Value
Name	[00000001] VMware Virtual Ethernet Adapter for V...
Adapter Type	Ethernet 802.3
Product Type	VMware Virtual Ethernet Adapter for VMnet1
Installed	Yes
PNP Device ID	ROOT\VMWARE\0000
Last Reset	8/29/2022 11:43 PM
Index	1
Service Name	VMnetAdapter
IP Address	192.168.165.1, fe80::4507:70ab:8409:c578
IP Subnet	255.255.255.0, 64
Default IP Gateway	Not Available
DHCP Enabled	No
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	00:50:56:C0:00:01
Driver	C:\WINDOWS\SYSTEM32\DRIVERS\VMNETADAPTE...

Below this, the second adapter is partially visible:

Item	Value
Name	[00000002] VMware Virtual Ethernet Adapter for V...
Adapter Type	Ethernet 802.3
Product Type	VMware Virtual Ethernet Adapter for VMnet8
Installed	Yes

=> 4th way is to go to power shell and write command `gip` and then all information will be displayed.

Windows PowerShell

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\Izaan> gip

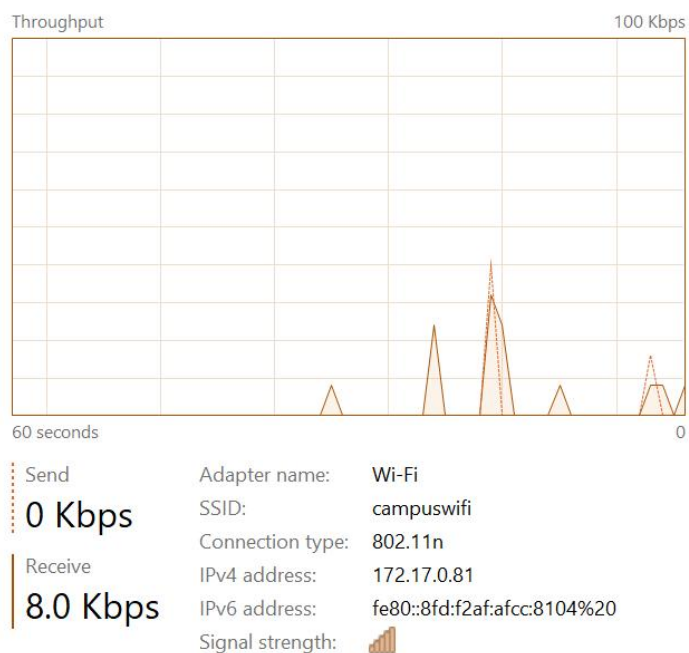
InterfaceAlias      : VMware Network Adapter VMnet1
InterfaceIndex      : 10
InterfaceDescription : VMware Virtual Ethernet Adapter for VMnet1
IPv4Address          : 192.168.165.1
IPv6DefaultGateway   :
IPv4DefaultGateway   :
DNSServer            : fec0:0:0:ffff::1
                    : fec0:0:0:ffff::2
                    : fec0:0:0:ffff::3

InterfaceAlias      : VMware Network Adapter VMnet8
InterfaceIndex      : 7
InterfaceDescription : VMware Virtual Ethernet Adapter for VMnet8
IPv4Address          : 192.168.10.1
IPv6DefaultGateway   :
IPv4DefaultGateway   :
DNSServer            : fec0:0:0:ffff::1
                    : fec0:0:0:ffff::2
                    : fec0:0:0:ffff::3
```

=> 5th way is to go to task manager and then click on (more details) and then click on performance there you will find wifi details.

Wi-Fi

Intel(R) Dual Band Wireless-AC 8260



=> **6th way** is to go to control panel and then click on Network and internet there you will find wifi and then go to details.

Network Connection Details:	
Property	Value
Connection-specific DNS ...	
Description	Intel(R) Dual Band Wireless-AC 8260
Physical Address	34-F3-9A-FE-4A-7F
DHCP Enabled	Yes
IPv4 Address	172.17.0.81
IPv4 Subnet Mask	255.255.252.0
Lease Obtained	Thursday, September 1, 2022 8:44:46 AM
Lease Expires	Thursday, September 1, 2022 9:34:48 AM
IPv4 Default Gateway	172.17.0.2
IPv4 DHCP Server	172.17.0.2
IPv4 DNS Servers	8.8.8.8
	115.186.188.3
	103.55.68.74
IPv4 WINS Server	
NetBIOS over Tcpip Enab...	Yes
Link-local IPv6 Address	fe80::8fd:f2af:afcc:8104%20
IPv6 Default Gateway	
IPv6 DNS Server	