Lab Task#1

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20P-0051

Question#1

```
IPv4 Address. . . . . . . . . . : 192.168.246.99
Subnet Mask . . . . . . . . . . : 255.255.255.0
Default Gateway . . . . . . . . : 192.168.246.104
```

IP address: 192.168.246.99

Subset mask: 255.255.255.0

Default gateway: 192.168.246.104

Question#2

Host 1 = 172.17.2.69

Host 2 = 192.168.26.6

Host 3 = 172.17.1.173

Question #3

OS = Windows 11

Way #1 (using cmd)

```
C:\Windows\system32>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 10:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::b0c8:9ed6:cb2a:49b1%17
   IPv4 Address. . . . . . . . . . . : 192.168.246.99
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.246.104
```

Way #2 (using Settings app)

SSID: Ayyzenn
Protocol: Wi-Fi 4 (802.11n)
Security type: WPA2-Personal
Manufacturer: Intel Corporation
Description: Intel(R) Dual Band Wireless-AC 8260
Driver version: 22.150.1.1

Network band: 2.4 GHz
Network channel: 11
Link speed (Receive/Transmit):   72/72 (Mbps)
Link-local IPv6 address: fe80::b0c8:9ed6:cb2a:49b1%17
IPv4 address: 192.168.246.99
IPv4 DNS servers: 192.168.246.104 (Unencrypted)
Physical address (MAC):   44-85-00-8E-D1-3B

Way #3 (using control panel)

Network Connection Details   ✕

Network Connection Details:

Property	Value
Connection-specific DNS S...	
Description	Intel(R) Dual Band Wireless-AC 8260
Physical Address	44-85-00-8E-D1-3B
DHCP Enabled	Yes
IPv4 Address	192.168.246.99
IPv4 Subnet Mask	255.255.255.0
Lease Obtained	Wednesday, 24 August, 2022 10:22:23 AM
Lease Expires	Wednesday, 24 August, 2022 11:40:48 AM
IPv4 Default Gateway	192.168.246.104
IPv4 DHCP Server	192.168.246.104
IPv4 DNS Server	192.168.246.104
IPv4 WINS Server	
NetBIOS over Tcpip Enabl...	Yes
Link-local IPv6 Address	fe80::b0c8:9ed6:cb2a:49b1%17
IPv6 Default Gateway	
IPv6 DNS Server	

Way #4 (using System Information)

Name	[00000002] Intel(R) Dual Band Wireless-AC 8260
Adapter Type	Ethernet 802.3
Product Type	Intel(R) Dual Band Wireless-AC 8260
Installed	Yes
PNP Device ID	PCI\VEN_8086&DEV_24F3&SUBSYS_00108086&REV_3A\448500FFFF8ED13B...
Last Reset	24-Aug-22 10:01 AM
Index	2
Service Name	Netwtw06
IP Address	192.168.246.99, fe80::b0c8:9ed6:cb2a:49b1
IP Subnet	255.255.255.0, 64
Default IP Gateway	192.168.246.104
DHCP Enabled	Yes
DHCP Server	192.168.246.104
DHCP Lease Expires	24-Aug-22 11:40 AM
DHCP Lease Obtained	24-Aug-22 10:40 AM
MAC Address	44:85:00:8E:D1:3B
Memory Address	0xE11FE000-0xE11FFFFF
IRQ Channel	IRQ 4294967285
Driver	C:\WINDOWS\SYSTEM32\DRIVERS\NETWTW06.SYS (20.70.30.1, 8.49 MB (8,...

Way #5 (using PowerShell)

```
PS C:\Users\saada> gip


InterfaceAlias       : Wi-Fi
InterfaceIndex       : 17
InterfaceDescription : Intel(R) Dual Band Wireless-AC 8260
NetProfile.Name      : Ayyzenn
IPv4Address          : 192.168.246.99
IPv6DefaultGateway   :
IPv4DefaultGateway   : 192.168.246.104
DNSServer            : 192.168.246.104

InterfaceAlias       : Ethernet
InterfaceIndex       : 5
InterfaceDescription : Intel(R) Ethernet Connection I219-LM
NetAdapter.Status    : Disconnected
```
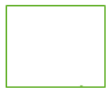
Way #6 (using Task manger)

Task Manager — □ ✕

File   Options   View

Processes   **Performance**   App history   Startup   Users   Details   Services

CPU
45% 1.60 GHz

Memory
5.3/15.9 GB (33%)

Disk 0 (D:)
HDD
0%

Disk 1 (C:)
SSD
0%

Wi-Fi
Wi-Fi
S: 208 R: 384 Kbps

GPU 0
Intel(R) HD Graphics …
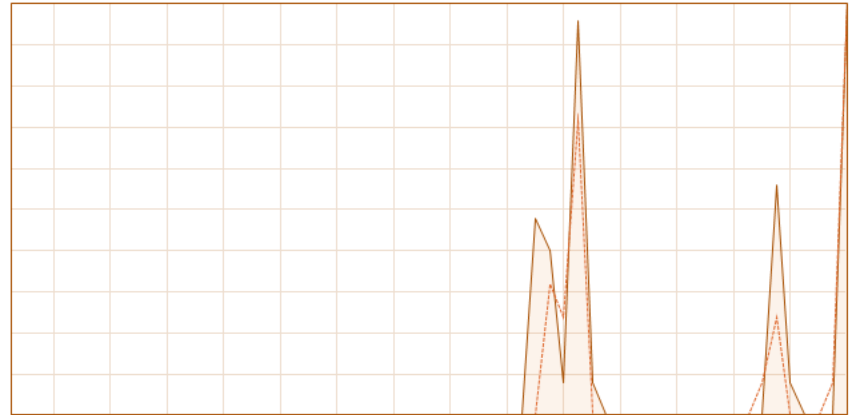13%

Wi-Fi

Intel(R) Dual Band Wireless-AC 8260

Throughput   100 Kbps

60 seconds   0

Send
208 Kbps

Receive
384 Kbps

Adapter name:	Wi-Fi
SSID:	Ayyzenn
Connection type:	802.11n
IPv4 address:	192.168.246.99
IPv6 address:	fe80::b0c8:9ed6:cb2a:49b1%17
Signal strength:	