LEARNING AND ASSIGNMENT OF IP ADDRESS MANUALLY TO COMPUTERS

AIM:

To configure system and assign an IP address manually to the system.

INTRODUCTION:

This experiment demonstrates how to manually assign IP addresses to computers within a network. It helps in understanding static IP configuration and basic network communication.

ALGORITHM:

1.on your PC, navigate to the ethernet network settings dialog.

2.click the internet protocol version 4 (TCP/IPv4) parameter.

3.click properties.The internet protocol version 4 (TCP/IPv4) properties dialog appears.

4.Select use the following IP address.

5.configure with following details:

      A.IP address for PC:192.168.210.2

      B.subnet:255.255.255.0
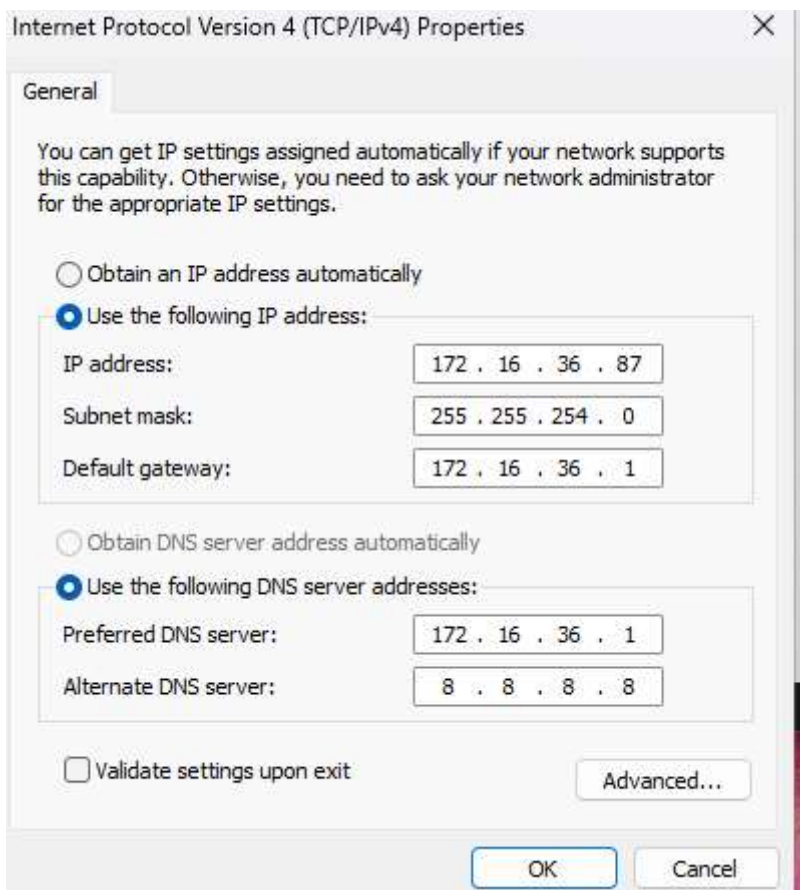
C.gateway:192.168.210.1

6.click ok.

7.open a browser window.

8.enter the default gateway IP address to access the Hub.

9.update the IP address for the device.

10.on your PC,revert the IP address information to the original entries.

Internet Protocol Version 4 (TCP/IPv4) Properties ✕

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address:

IP address: 172 . 16 . 36 . 87

Subnet mask: 255 . 255 . 254 . 0

Default gateway: 172 . 16 . 36 . 1

○ Obtain DNS server address automatically
● Use the following DNS server addresses:

Preferred DNS server: 172 . 16 . 36 . 1

Alternate DNS server: 8 . 8 . 8 . 8

☐ Validate settings upon exit

Advanced...

OK　　Cancel

OUTPUT:

BEFORE CHANGING

```
C:\>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet 2:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::1716:d269:3543:77b5%19
   IPv4 Address. . . . . . . . . . . : 172.16.36.87
   Subnet Mask . . . . . . . . . . . : 255.255.254.0
   Default Gateway . . . . . . . . . : 172.16.36.1
```

AFTER CHANGING

```
C:\>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet 2:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::1716:d269:3543:77b5%19
   IPv4 Address. . . . . . . . . . . : 192.168.1.100
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.1
```

RESULT:

Thus, the system was configured and assigned an IP address manually to the system.