

Ex.No:

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28/10/25

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LEARNING AND ASSIGNMENT OF IP ADDRESS MANUALLY TO COMPUTERS

AIM:

To manually assign a static IPv4 address to a computer and verify network connectivity using subnet mask, default gateway, and DNS configuration.

INTRODUCTION:

In a computer network, devices can obtain IP addresses either automatically through DHCP or manually through static assignment. Static

IP assignment is used in labs, servers, and controlled networks where fixed

addressing is required. By configuring the IP address, subnet mask, default

gateway, and DNS manually, we ensure the system correctly communicates within the LAN and accesses external networks.

ALGORITHM:

1. Open Control Panel Network and Sharing Center.
2. Click Change adapter settings.

3. Right-click the active network adapter Properties.
4. Select Internet Protocol Version 4 (TCP/IPv4) Properties.

5. Choose Use the following IP address. Enter:

IP Address: 172.16.36.100

Subnet Mask: 255.255.0.0

Default Gateway: 172.16.36.1

6. Choose Use the following DNS server addresses. Enter:

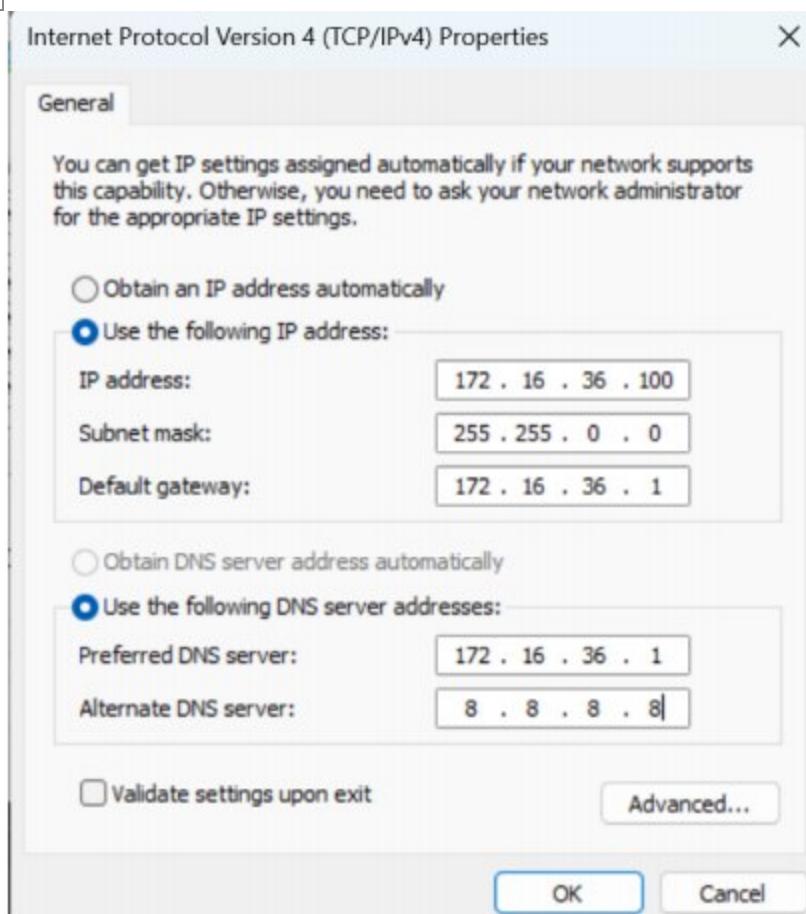
Preferred DNS: 172.16.36.1

Alternate DNS: 8.8.8.8

7. Click OK to save the settings.

8. Open Command Prompt and verify configuration using: ipconfig

OUTPUT:



BEFORE:

```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix  .  :
IPv6 Address . . . . . : 2401:4900:1cd4:2b56:7c52:3e58:363d:2d6a
Temporary IPv6 Address . . . . . : 2401:4900:1cd4:2b56:b511:bab:f94d:a797
Link-local IPv6 Address . . . . . : fe80::25b1:174a:723b:da2e%21
IPv4 Address . . . . . : 192.168.1.3
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : fe80::1%21
                                         192.168.1.1
```

AFTER:

```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . . . .
IPv6 Address . . . . . : 2401:4900:1cd4:2b56:7c52:3e58:363d:2d6a
Temporary IPv6 Address . . . . . : 2401:4900:1cd4:2b56:8970:c236:57c1:a8a
Link-local IPv6 Address . . . . . : fe80::25b1:174a:723b:da2e%21
IPv4 Address . . . . . : 172.16.36.100
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : fe80::1%21
                                         172.16.36.1
```

RESULT:

Thus, the manual IP assignment was completed and validated.