

# Computer Network Assignment 1

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## Question 1 and 3.....

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C:\Users\Lenovo>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::4ade:275f:6c51:40c2%4
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 

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::4667:7cef:e888:413b%10
    IPv4 Address. . . . . : 192.168.16.101
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.16.1

Ethernet adapter Bluetooth Network Connection:
```

## Question 2 and 4.....

Q1) Find Network Address

IP Address = 192.168.56.1

Subnet Mask = 255.255.255.0

In binary,

IP Address = 11000000.10101000.00111000  
                  - 00000001

Subnet Mask = 11111111.11111111.11111111.00000000

So,

Network Address = (IP Address) ANDing (Subnet Mask)  
                          = 11000000.10101000.00111000.  
  00000000  
                          = 192.168.56.0

Q2) Given Network Address and subnet mask,  
how many nodes can your network connected.  
we have,

Subnet mask = 255.255.255.0

Subnet mask in binary

= 11111111.11111111.11111111.00000000

Total number of host bit = 8

Total nodes that can be connected

$$= 2^8 - 2$$

$$= 254$$