QUESTION

1. **What is your ip-address?**
2. **what is your subnet mask?**
3. **What is your Network address?**
4. **What is your Broadcast address?**
5. **How many end devices can your network support?**

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Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   IPv6 Address. . . . . . . . . . . : 2400:74e0:10:22cc:2c50:b15b:2e80:99a9
   Temporary IPv6 Address. . . . . . : 2400:74e0:10:22cc:f0fc:97d0:2b08:a84c
   Link-local IPv6 Address . . . . . : fe80::645e:26eb:71fa:b8fe%12
   IPv4 Address. . . . . . . . . . . : 192.168.100.16
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : fe80::1%12
                                       192.168.100.1
```

Answers :

1. My IP-Address is**: 192.168.100.16**
2. My Subnet Mask is**: 255.255.255.0**
3. For Network address,

   IP address & Subnet mask

   192.168.100.16 & **255.255.255.0**

   So , Network address is: **192.168.100.0**

4. Broadcast address is: **192.168.100.255**
5. My network can support $2^8 - 2 = 254$ end devices.

➢ Observing at my subnet mask, I find that there are 24 network bits and 8 host bits. Hence, my network can support (2^8-2) end devices .i.e. 254 end devices. Here, 2 is subtracted because 192.168.0.0 is network address and 192.168.0.255 is broadcast address**.**