Assignment 2.0

Configure your PC for LAN in Windows and LINUX environment (Configuration of Ethernet Card for subnetting).

ipconfig:

The ipconfig command in windows is used to display information about your network configuration and refresh DHCP and DNS Settings. By default, the ipconfig command displays your IP Address, Subnet Mask, and default gateway.

For Windows: -

Before Changes:-

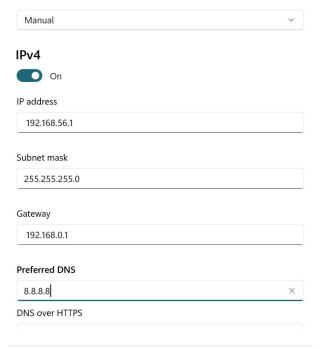
Automatic (DHCP):

After Changes:

Start -> Settings -> Network & Internet -> Properties -> IP assignment -> Edit -> Manual;

Turn on IPv4 and Changes are given below:

IP address	192.168.70.24
Subnet mask	255.255.255.0
Gateway	192.168.0.1
Preferred DNS	8.8.8.8





For Linux: Before Changes=>

```
(snsupratim@ kali)-[~/Desktop]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.199    netmask 255.255.255.0 b broadcast 192.168.0.255
    inet6 fe80::a00:27ff:fe6e:e584    prefixlen 64 scopeid 0*20<link>
    inet6 fd01::a00:27ff:fe6e:e584    prefixlen 64 scopeid 0*0<global>
    inet6 fd01::1fa:be26:cdfe:e59c    prefixlen 64 scopeid 0*0<global>
    inet6 fd00:77:6e:e5:84 txqueulen 1000 (Ethernet)
    RX packets 8 bytes 982 (982.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 27 bytes 4818 (4.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

10: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0
    inet6 ::1 prefixlen 128 scopeid 0*10
    Cop txqueuelen 1000 (Local Loopback)
    RX packets 4 bytes 240 (240.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4 bytes 240 (240.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

**Cansupratim@kali)-[~/Desktop]
```

After Changes =>

In gnome click Settings -> WIFI -> Connection Settings -> IPv4 -> Manual -> Edit -> Apply;

Turn on IPv4 and Changes are given below:

IP address	192.168.0.199
Subnet mask	255.255.255.0
Gateway	192.168.0.255
Preferred DNS	8.8.8.8

```
(snsupratim® kali)-[~/Desktop]
ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.199    netmask 255.255.255.0    broadcast 192.168.0.255
    inet6 fe80::a00:27ff:fe6e:e584    prefixlen 64    scopeid 0×20link>
    inet6 fd01::a00:27ff:fe6e:e584    prefixlen 64    scopeid 0×0<global>
    inet6 fd01::f1fa:be26:cdfe:e59c    prefixlen 64    scopeid 0×0<global>
    ether 08:00:27:6e:e5:84    txqueuelen 1000 (Ethernet)
    RX packets 58    bytes 4897 (4.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 46    bytes 6398 (6.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0×10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 4 bytes 240 (240.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4 bytes 240 (240.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```