Computer Networks

IP Address : প্রতিটি PC এর একটি Identity set করা,
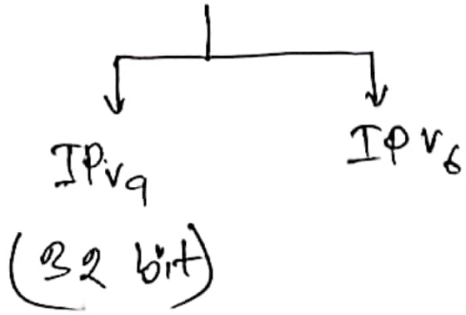
```
        ┌──────┴──────┐
        ↓             ↓
      IPv4          IPv6
    (32 bit)
```

⊛ IP প্রতিটি Portion কে octed বলা হয়।

⊛ যেকোন PC IP address 0.0.0.0 use করে যদি, ঐ IP address কোন এ set করা হয় না।

⊛ Subnet mask এর মাধ্যমে Subnet ⟨Network address⟩ কে hide করা হয়।

Class A (1-126)

IP Range : 1. $\underset{host}{0.0.0}$ to 126. 255.255.255

Subnet Mask : 255.0.0.0 (8 bits)

Loop pack address : 127.0.0.0 to 127.255.255 .255

It is for testing purpose। Host এর জন্য নয়।

Class B (128-191)

Range: <u>128</u>. 0 . 0 . 0   to   ~~128.0~~ 191. 255. 255. 255

     ⌞↓⌟   ⌞↓⌟

    networks   host
     address

Subnet Mask: 255.255.0.0 (16 bits)

Class C (192-223)

Range: 192.0.0.0   to   223.255.255.255

           ↓
         host

Subnet Mask: 255.255.255.0 (24 bits)

Class D (Multicasting)

Range: 224.0.0.0   to   239.255.255.255

Class E (R and D)

Range: 240.0.0.0   to   255.255.255.255

[Broadcast address]

Private Addresses

Class A Private Range: 10.0.0.0 to 255
10.255.255.255

Class B Private Range: 172.16.0.0 to 172.31.255.
255

Class C Private Range: 192.168.0.0 to ~~168.255.255.~~
192.168.255.255

Special Address

IP range: 127.0.0.0 to 127.255.255.255

network testing addresses.