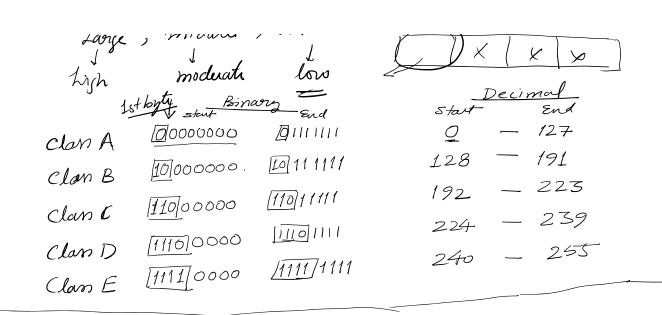
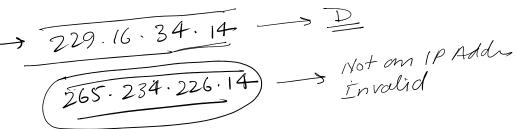
0 September 2021 02:00 PM	1PAddressing
	1P Address is a address that uniquely identify a node/Host in a local/global Mw.
	IPV4 IPV6
No. of bits No. of Address	$32bits$ $128bits$ 2^{128}
(Addrew Space)	1. 294967796 3.40282367-e ³⁸
	3-4×10 ³⁸ 340282366920938463374607431
	192.168.10.1 -> Decimal Dotted Notation.
B	inavy
	11000000 · 11101010 · 00001010 · 00000010
	8 bits 1 byte 10 · 2
3	2 bits of IPAddrew is divided into 4 segment separate
	192-234-10-2 /P Address Fractional Number
	alu of any segment lier between 0 - 255 binom demind + 00000000 -> 0
	11111111 - 255
Range	0.0.0.0
	255.255.255.255 -> last Address -
Cla	assful Addressin
	Large, middle, small Link moderate low





1Yote -> Only Clan A, 13 2 C are available for Public allocation,

[classid >> multicarting class E >> Reserved for experimental & Research

Unicasting -> AB, adrer au unicart address.

communication is is b/w a paire of nodes.

one to one mapping.

Broadcarting - whem one node communicating to all the noder in the network.

one to all

Multicasting -> when one node communicating to Some selected noder in the network. one to many.

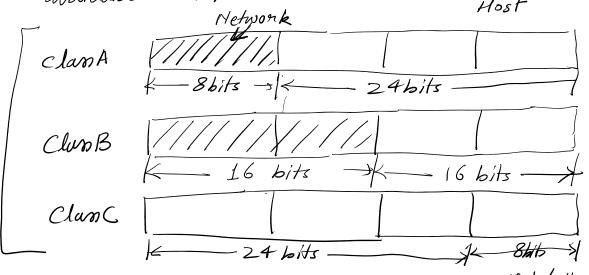
IP Addren 1) Netword Id > 1/w

(2) Host Id. -> Host

As First Octet of IP Addres is und determine the class of the IP Address.

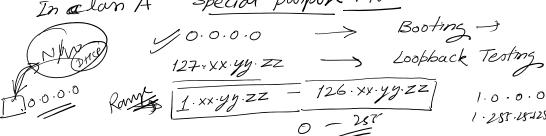
Smilarly the MwId is used to determine the Mw.

Host Id is used to idetify the number/name of IPAddrenn available in a particular MW.



	NWbits	Hostbits	No . of HW	No of Hosts/N/W
Class A	8	24	$2^{7}-2=126$	24= 167,77,216
Clan B	16_	16	$2^{14} = 16384$	$2^{16} = 65536$
Class C	2:4	8	$2^{21} = 2097152$	$2^8 = 256$
Clair				

In alon A special purpose N/W



Subnet Mask

Subnet Mask

Set all the /V/w bits to 1

Class A N/w bits 8

Hoct bits 24

Set all the bostbits to 0

255 - 0 - 0 - 0 255:0-0.0

	255:0-0.0	
Clan B 25	5.255.0.0	
	ST. 25T. 25T. 0	
Subnet mask und	d to identify a particular n	etwork.
192.168.10.0	[192.16.10.255] Broadcast id 68.10.1 - 192.168.10.254]	J 256
	7 192.168.10.221	Lalonato:
O What is the net	work idof the MW this Its address	B Q= AinB
clan C pelault	subnet mark 55.255. 255. 0	0 0 0 0 1 1 1 1
Sabonet mart AND [11111111. 10 Address = 11000000	11111111.1111111.00000	000
	0.10101000.00001010.00000	000
N/W Id -> 192	. 168 . 10 . 0	-
. 1/	411, 51 of the network containing:	
What is the	H/W Id of the network containing. 172: 69-42-60	
(a) 172.69.		
(c) 172.69.	0 · 0 0 · 0	
(d) Hone of	these	

Subnet Mark 255.255.0.0

New Section 1 Page 4

172.69.42.60

Class — 13
(IPAddu) AND (Subnet Maste)
172.69.0.0