## CS & IT ENGINEERING





**IPv4** Addressing

Lecture No-20



By- Ankit Doyla Sir



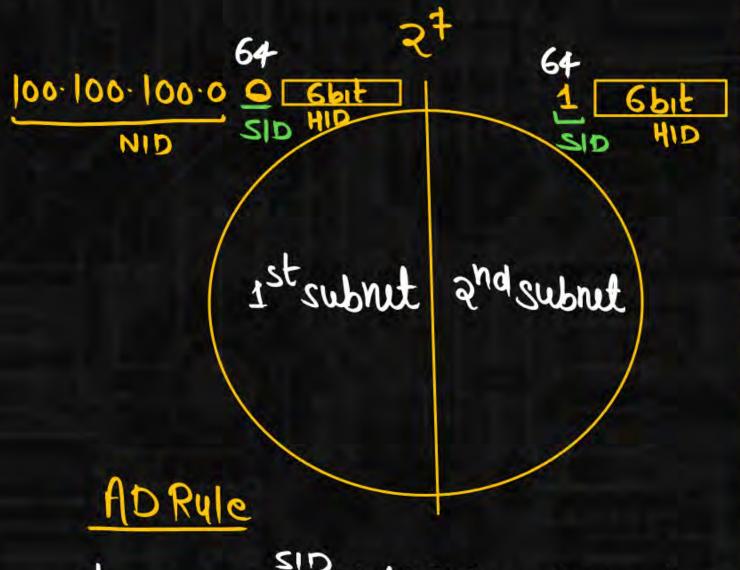
## TOPICS TO BE COVERED

classless Addressing



```
100.100.100.14 25
   NID =25 bit
   HID = 32-25 = 7 bit
NO OF IP Addresses possible = 27
No. of Host possible = 27-2
100.100.100.00001110
  8+8+8+1
                    HID
       NID
 100·100·100·0
       NID
                    HID
               RSubnet
100.100.100.00
        NID
```





1st subrut | DBA : 100.100.100.0126

2nd subrut [DBA: 100.100.100.64| 26

1<sup>st</sup> subrut



```
100.100.100.000000 -> 100.100.100.0] SID
```

 $|00.100.100.00.000001 \rightarrow |00.100.100.1]1$  Host |00.100.100.00.00.00.1]1

100.100.100.0001111110 → 100.100.100.627 Last H 100.100.100.0001111111 → 100.100.100.637 DBA 2. 100·100·100·14 25 NID= 25, HID= 32-5= 7 bit

> No of IP Add Tesses in this Block= 2+ No of Host in this Block= 2+-2

100. 700. 100. 00001110 100. 700. 100. 00001110

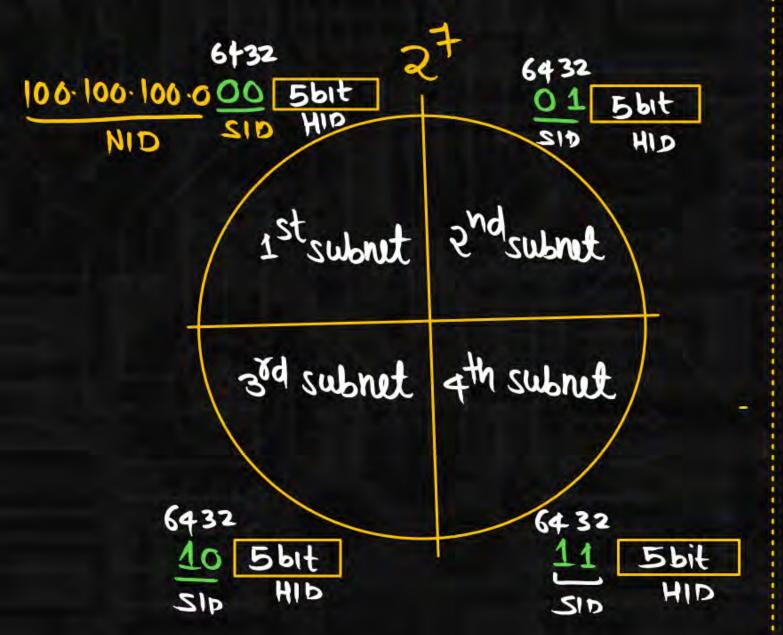
100·100·100·0 -----

100.100.100.0 DD ----



1st subrut-00 2nd subrut-01 3rd subrut-10 4th subrut-11









$$CSER = 60$$
 $CSEB = 30$ 
 $CSEC = 30$ 
 $120 \le 126 (408)$ 

