Networking in IP

network is also know as 1 and hosting is know as 0

#Class A = 32 bits ->
 8 bits Network and 24 Bits Hosting
 2^8=256 network and 2^24= 1677216 hosting

#Class B = 32 bits ->
 16 bits Network and 16 Bits Hosting
 2^16= 65536 network and 2^16= 65536 hosting

#Class C = 32 bits ->
 24 bits Network and 8 Bits Hosting
 2^24= 1677216 network and 2^8=256 hosting

CIDR = Classless Inter-Domain Routing

#Subnet:-
.A subnet, or subnetwork, is a network inside a network.
.ubnets make networks more efficient.
.Through subnetting, network traffic can travel a shorter distance without passing through
unnecessary routers to reach its destination.

in simple Word
.When a bigger network is divided into smaller networks, to maintain security, then that is known
as Subnetting.

Lift hand side bet is called MS (it's multi Network)
Right hand side bet is called LS (it's divison Network)