EXPERIMENT-Network P. Subnetting Dupunetting Aim 3-Study of Network 1P and Sub Netting and supernetting & V Classification of 1P addresses. > sub nettind To Long Owe develop sub netting and How to Calculate subject mark and how to Videntify subject address. Supernetting 1900-11001 why we (develop super netting and how to calculate O super net mask and how to identify super IP Addyen: An Internet Protocol address (IP address) is a numerical lobel assigned to each clevice participating in a computer network that uses the Internet Protocol for Communication. An IP adaress serves two principal functions: host as returned interface identification and local addressing. It prole has / been chanacterised as ofellows ; 4 A nome indicates what we seck ! An adaren indicates where it is. A growte indicates how to get there!

Classmate

Provide IP's to 232 devices (about 4.3 billion)
at the same time or internet, It con be
divided in pourt.

(i) Classful Addressing - The address span is
divided Into five classes A, B, C, D

and E

-	Class	First	Bute	Application
		Brany	Dermal	
	A	00	0-127	Unicast
	B	as logation	1128-1911	Unicast
	C	(Jon Le	1192-22311	Unicast
	D	1110	1224-23911	Multi cost
The Property of	Engl	JI Blen	12 40-25511	Reserved

The whole IP address is divided into Net 1d and host IP address. Their this method only uses blocks. The no-g addresses in a U block are in powers of 2.

Subretting:

A bigger network is divided into smaller network in Worden to maintain security.

Nid = 193.1.2.0

Step 13. Choose one bit for coch subnet from host Id port. It is a class c network. So, 8 bits are there in host id. Now, we need to divide it in two subnets.

Step 3: Thus, we will have the notwork divided into - hos notwark. for the purpose of identification of hosts we use the concept of mask. The powers that we followed in the example also uses mask. The most identifics range of a subset. Supernetting: Multiple retworks are lambined to form a single bigger retwork termed as supernet. Eg à We hove 4 retworks of clars c 200.1.0.0, 200.1.1.0, 200.1.2.0, 200.1.3.0 We have to theck conditions? 7 Contigous notworks 7-equal -sized retworks first IP address exactly distrible by total

() size so, we con form a some The resulting supernet is 200. 1.0.0



