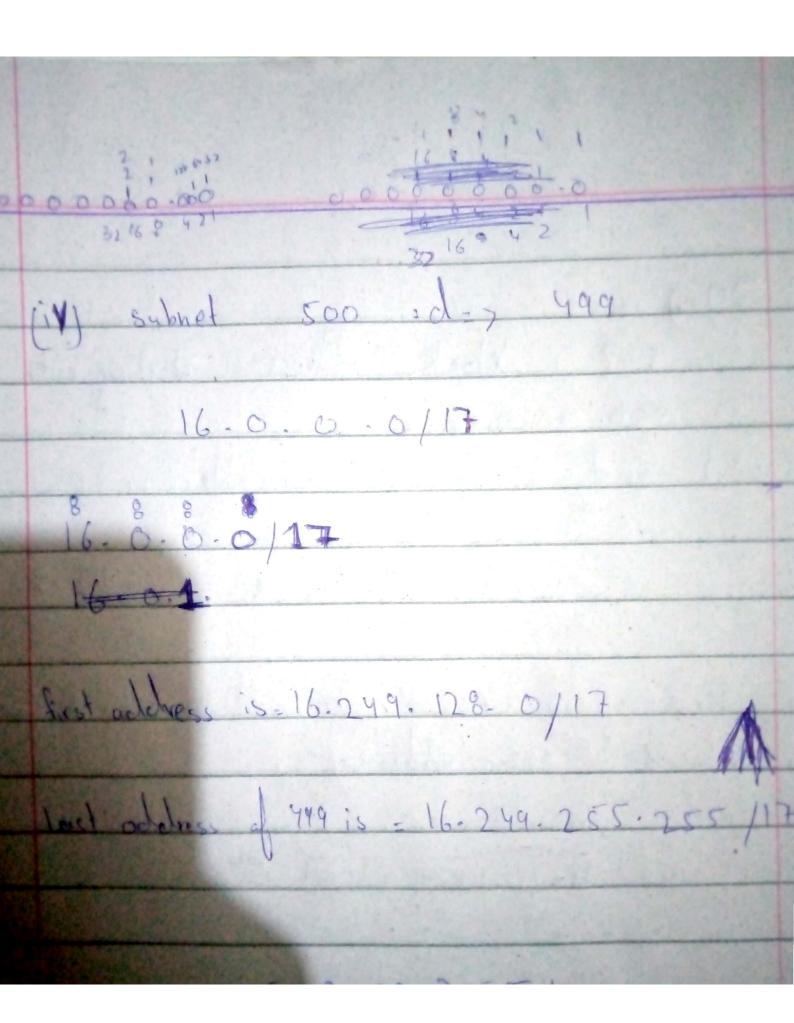


Prinz 5P of one host is 25.34.17.56/16 25.341 12.56 /16 8 8 8 8 8 2 bile nelwork address is 25.34.0.0 limited broadiast address is 25-34-255-255 QN03) of columnisheder want 500 fixed lengthsubs we need to add a more extra 1s int log: 500: 8.96 The number of extra 2s is 9 and possible subhols is S12 The subnet prefix is then /17 The submet mask is 1255. 255. 128.0

still The side has 232-8 subhet has 32-17 16.0.0.0/17 Now HE NOW 16.0.127.255/17



(Noy) ISP block addresses storting with 150.80.0.0/16 Total no of andresses available now is 232-16:65536 => 2 [6]-> bils py first group has 200 medium sizie business 32- 109 128 > SA bits 1st business d=>0 Pat 1 150.80.0.0/505 lad s 150.80.0.177/25 20014 business of 199 Petro 150 80 99. 178/25 Birtis 100 30.94.25/25 200 9 128 = 25,606 addresses

	4
	-
(b) serond group has 400 business	
each needs 164 address	_
	2
32 - log2 N	A
32 - Nogs 16 => 34 32 - 4 - 38	A
	6
1st business 150.80.100.0/28	3
150 · 80 · 100 · 15 / 38	8
400 business d-> 394	
150-80-74-240/28	
150.80.24.255/28	
	0
user usage = 400 x 16 = 5200	
	1