Count model of eligopoly; Base: Duopoly (for 2 firms) Oligopoly: for few firms Assumption !~ firms are competing producing identical or nomogeneous products (eg: Mineral water) cost assumed as 0. 9 \*> firm will produce half of market demand ¿ because if firms will produce more price will decrease so firms produce half of the market demand? consider market demand = 100 firm A producing Half of Market demand = 50 og portion of the olp is captured by firm A. Now firm & comes into the market.

O P pico output tirm & will produce This portion was half of remaining capture d by firmed A As a came into market price has reduced from P to p' because ofp has increased. + New A wants to increase the price again. + 30, A figures out what portion of market Total =100, B producing = 25 so A can produce = = = (100-25) = = = 37.5 Now price has been increased again to some extent, A's postion 7 Now 6: = (100-37.5) = 62.5 = 31.25 A= = (100-31,25) = 34,375 B= 3 (10p-34.375) = 32.815

firm A firm B This keeps going on olp >> 50 25 2 untill both the firms 31.25 37.5 get of as 33.3. 34.375 32.815 33.5925 33.20375 tirm A tirm B 1
33.3 33.3 so Always portion is remained A = 1 (100 - 32.815) = 33.5925 empty  $B = \frac{1}{2}(100 - 33.5925) = 33.20375$ so for few firms always one portion of demand will be kept empty.

Eg: If there 4 tirms, then 100 part output will be produced by each tirm and one postion will remain empty.