Nilay Chheda - 200901228). Homework-2 IT-468, [@1] CFG. for L= { Onth /m +n, m, n >0} SI -> OSIIIE S -> OS, | S,1/E [QZ] CFG G = ( {53, {a,b}, P, S}) S -> ElaSbS/bSaS La) = {w| number of a is equal to number of bisw} [63] ( ) {wlevery odd position of wis 1} 8e = 1.[(1+0+1).1]\* {w/w has old as a substring} re = (0+1) 010 (0+1)\* (III) {w/w has odd number of 0's and even number of 1's} Te = [0.010, (00), (010), (1001)] + [1.001), (010), (00), (010), (00) (iv) { w | the length of w is at most 5} SE = (0+1+4). (0+1+4). (0+1+4). (0+1+4) Q & w/w does not contain the substring 110} Se = y+1+ [1-1-1-(0+1)] + [(0+10+110+1110) (0+1)\*]

In  $\{\xi_{i},0\}$   $\xi_{i}=0+\xi$   $\xi_{i}=0+\xi$ 

