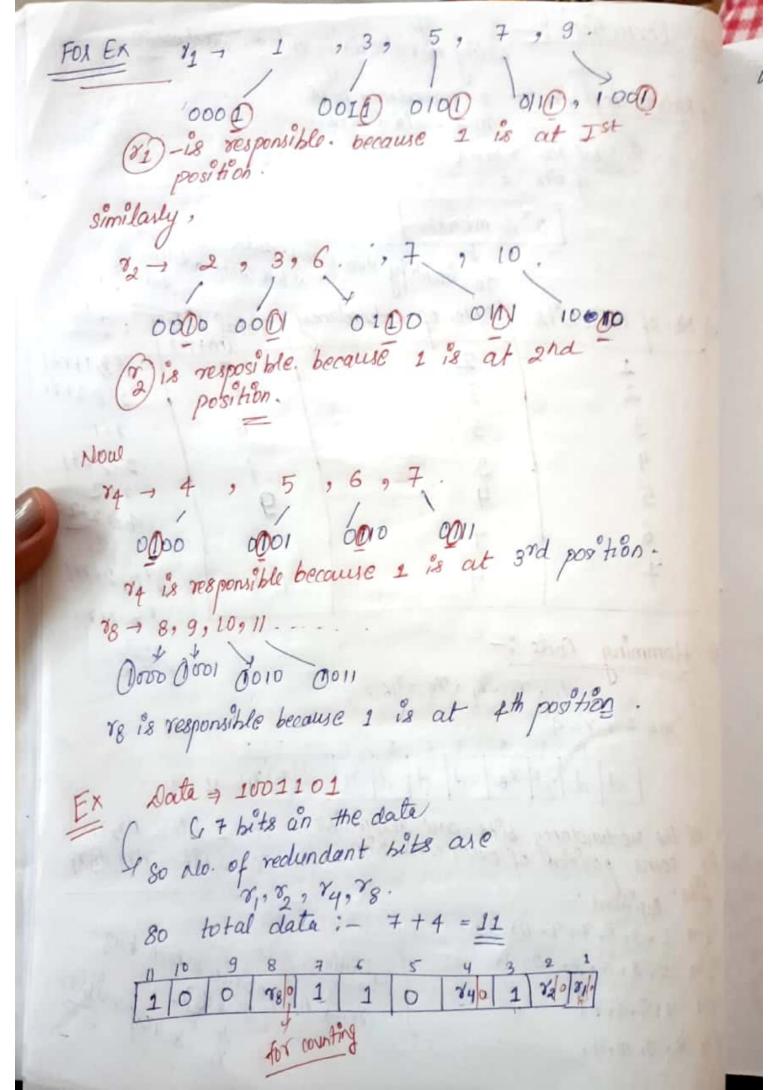


- Enon Correction :- Adding to redundancy tit 8. mechanism
- Redunctancy hits: - 8- redundancy bits  m - Data bits.
Total No. > m+1
of bits 1
[287 m+8+)]
To identify How many votable added to date?
(m) No. of data bits MNO. of Redundancy Total bits T, and
1 2 3 1 2 3 1 2 1 2 3
3 3 6 7=1
4 3 7 27 271
$\frac{7}{4}$ $\frac{7}{4}$ $\frac{2}{4}$ $\frac{2}{2}$ $\frac{7}{4}$ $\frac{2}{2}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{1}{4}$ $\frac{1}$
6 4 4 10 100
+ 4 = 1 31 1 2 11 2 2 2 2+x+1
2 7 3 tr
# Hamming Code: - 876
m = 7, y = 4
11 10 9 8 7 6 5 4 3 2 1
d.d.d 8 d d d 74 d 72 7, 11 1
for some postion of ensor correction. For 2 bit = dry ri
lible ob
1st, 81 -> 1 - 32 5, 7, 92 111 132 = 7
2nd 27 2, 3, 6, 7, 10, 11, } critoria like which has
3 04 -> 4,5,6,7, 10,11, } critoria like which has and the seponsible of the sep
2 2 2, 3, 6, 7, 10, 11,



Now calculate the value of redundant bite 7, 72, 74, 789 7, regronsible for 1, 3,5, \$, 9,11 No of one's at these position = (3) - odd so for even parity. Similarly for 82 7 - 2,3,6,7,10,1 No. of one's at these position = (4) - even 74 74,5,6,7 No. of 1/8 at there position = @ - even 78 -> 8, 9,10,11 No. of 1/8 at these position = 1 - odd. Now fix these redundancy bits at the respective places:-1000111110001200 New date for the transmission gulat data or 10011100101 suppose some bits are modified at receivers end; 1/010 0 1 0 Error at receiving End 10010100101

