



from the consupt message that we received A) In essor-correcting, Parity Ceck has a simple way to detect expors along with a sophisticated mechanism to determin the corrupt bit tocation. #Orce the Corrupt bit restocated. it's Value: s reverted (from 0 fo 1 or 1 too) to got the briginal message. > By the use of essor - correcting code it detect the exact location of the Corrupt bits here ous Dz

2) ASCII Value for bis 66 convert this Ascii Value to binary and store them ras 8 bit douba assume Dris worngly entered as 'O' Arswer: The Ascil Value b' = 66 The Birary Value of '66" = 1000010 sender 1 8 Bit data, Compute Parity bit The total no. of '1's bit in the data curit is '2' So '0' is add to data unit as a Quer Parity. 8 data bits

Transmitted In this 8 bit data Diss wronly entered 08 07 P6 D5 D4 D3 D2 P1 D0 Compute Parity bi Now the no. of I bit is 1 Sothe estal is only it's odd but ite hour even parity o detected reject No even Yes Accept Ersor-Correcting: AT The Exxor Correcting codes also deploy the same strategy as errodetecting codes but additionally Such codes oilso dect the exact location rofthe corrupt bit.

Donce the corrupt bit is located, it's value is howerted from Dto, 1 to 0 So here the "D, is wrongly entred as 'o' how it is changed to 8 dda bit bit and a Hence the orror is corrected.