Experiment - a

what is Hamming Code ! Explain with help of an planning code is a set of error corred ion codes that can be used to detect & correct the errors that can occur when dot a is moved or stored tentre under to receiver Bomple puta to be sent by sender: 11001100 odernining: PI P2 03 P6 D7 P4 D5 P6 P7 Pr P3 D5 D7 100 0011 0011 4=0 P2=0 P4=0 P2 00 P D 1001 Hamming Code: 11000 DI 0000 D A 7 bit Hamming Code is recieved as lolloll could the error in a given data stream by applying the hamming code error correction mothed. ) Womming Code: 10 11011 Dy P DS Py D3 Pite Checkep, Checlep Check Pa P, P3 PS P7 P2 03 04 07 Pu DSPBPZ 10011 1001 P. -1 P2=0 Pa =1 To locate bit : Pupze. To correct we have to invert t 5th bit Correct Code: 1001011

3) aiver the eight bit data 10111001, generate the 12 bit composite word for homming code that detects connects single bit ciror using even parity P12 P11 P10 P9 P8 P7 B D5 P9 P2 P, calculate Parity bits: P1 = 0 P2 = 1 P4 = 0 P8 100 Py Do Dio Pi Diz P8 1101 P8 =1 Laming Code: 10111000110 To find croor! P& P, P, I must abil not lo al voir all la We need to inevert 10th digit 100111000110 8,123