Explose 6. Hamming Code programs for creat. Aim!- te a raugeam to implement. erreel detection and correction as ing. HAMMING cools concept make an. test sum to input, doctor shown and vality euros correction feature. Exercer Currention at patalinks layer. Hamming Cocle is a set of carrel. Correction code that can be used to detect and correct that cook that can occur when the date is beansmitted. from the sended to the secieved It is a technique cleveloped by R. w Hamming feel ercel. Correction. Create sender program with be low feature 1/ Input to sender file should be and text of any length program should curvert the text to bingry. e, Apply hamming coole concept. on the binary dest a and add reducent bin +01 + 3, save this output in a file called. Channel necessfully composed and described is

create or received magram with solow offentures to the lambdan macro diffe 1, peceiver brogsam should Read Timput from Channel file on binay. 2. Apply hammin of I valo dat on to check for earen. 18, It there is an error, alisplay. The position of the errors service Else lemote reductant bits and display the olp. Sender opyting tool = id dy char to-binary (ch). If Id "[0]" "Convert on character to Mid Stainey Stainey !! "". restant format cordech), def harming-encoder (dada 4)! de ide ide l'int [bit] fax. Swi John 2 droldzoordu. pe din dandy. Pu = d2 d3 dy setven 1" 2p,3 2p27 ? d,3 5 pu 3 Ed23. 3 d3 3 fd4 3.

waln't toset = "nout (" on tox fextal) stor with open Cichannel. +x+11, "w") as was to book the in test of in Dinah = chas to - birally for day by face is in surge (0,80) Cocle = homming-encocle Cbin-ch Li: i4] Esses d. write (coole) paint Ciclata with to chantel. Leceiver. py def hamming-decode (codes): b=CoJ+[in+(bi+)faxbi+in P, = 6 617 1 6 13 ] 1 6 [5 7 1 6 17 ] P2=b[2] 1 b[3] 11 b[6] 1 b[7] Pu = 6[4] 1 6[5] 1 b[6] 1/5/17 Chran-pos=p, +. 1+p2 +2+p4 24 foreces past =0 hant (in error, detected at nosition ferrer-iasy. ubale blocosecting. ...). PH = do 1 d3 1 du . 是由是是的是

In the part characters of the dide: 8/3; du = 6 123 ], N 665], bris], bris], bris], bris] selven d" S.d. y Edeg Edeg Edeg". phylogen result = (1) with open Cychannel tet ", "v") of Code = f.reach C) der in Lange (orher (codes), J) decade (cooleli:it7) for in sange (oylen Chinay) by te = binary - result [ii. 148] text+ = chocint (byte,2)). pain to Connection there ever inflamention between cosessis shell antout strice Endon 4-bit datel: 1011 Scholar Sida! -00/0011 Enter bit position to introclina Received Side 1. 001001 No esser dele del : 1 entil Voginal Dater bit l'entracted : 101) factory of occount Hence the code is succently escentered and completed!