Earnort Date: 7/8/24 Him. To write a program lo suplement evior deletter and correction using blanming code concept Make a Kest run to Esput dala stream and verify error lovelon feature brown Correction at Data Link Layer. Hamming wode Is a set of ever - werestinon Codes That can be used to delet and worked the errors that can occur when dala is brownited from the sender Ro seisever. It is a Richnique developed by RW. Hamming fren erren correction. Creales sender jorogram I Input to sender file should be test of anylongth. brogram should convert the Text to binary. 2) Apply hamming code concept on the binary data and add redundant like to st. 3) Save This output in a fele called channel.

prene a reciever program with below features. Redever perogram should read the input from channel file. of Apply hamoning ende on binary data to check beer evens. 3) If there is an evoror, diglay the position of over. W) the remove the endindant like and convert the lineary data. String = input ("Enter Sterling:") S=1. join (format/ordz.g., 108b). for in stering): | for 2 in many / len (s)):

| b (2000;) = (en (s) + i + i):

| bereak me lands) tob Contract the There of l = [] pos=27 C=0 5-5[::-1] in the interpretation Goes in range (nb): nos. append (exs) been it in erange (m):

Alian in pos:	
1. insert (1, 'p)	(CD)
else: 1. Insort (1) est (s	
Ctel	Promised and they are
mula 12	Wa \
rount !" Initial emoded data a lovert = 0	will be to the second
been sin hours	payly position:
in t	The hosting pour of sell is
Count = 0 $\lambda = \rho - 1$	
	Egypt in Educit (1975)
	count (1) I milliming in
17 = 2 mp	CE
numet v / 1	20 dse(0) (1) pour de la 1
pewent of final emoded Laka will	h parity like: " [[::-]
1 - gen ("lode, Tot", "w")	1 = 2) r's
6. wente (ster (12::-1))	1,04- (1),00 m
6. Woser	To To a
6 = open!" Coriginal. Lat", is	ingon o i
brusile (ster (18:1-1))	Carrier and the second
bulose ()	Can spend in the
	(continue
	in the second
,	

for open ("book lat", "on") \$ = b. readline () print (" 5 looks ", x) PF open (" Oxigeral, Lat", "a") y: 8. readline() ofth 12 billion point ("O look:", y) (AV and A record of the l=α. sleig ("["). sleig ("]"). sleig ('] ("]"). split (",") for sen 1: i. sleig (" ") 1=1J pres=[] 26 = 0 is some line (cf. 1)); (por I in narge (der (d)), institute of the ib (2**i >= len(1)+ i+i): Signiffy a gradient Comment in the stand boock Epitalia de de la como loor i in nangelab): 1.... mos append (eax;) de John Min period (" luxilarono: ", pros) in the content of 9-23 book in [[::-]. of (i==" 1" por i==" 1").

Q. append (1)

else: 9. append (o) p in pos: Count=0 1=P-1 while 12 len(1). Count + = g[is i+p]. count (1) (: append(o) of court: 1.2 == 0 dse (. append (.) print (" Bårary: ", L [::-1]) change = 0 8=9[::-] foor 2 in marge (len (c[::-1])): Change + = (2i] = 200; 9 [change -] = 0 if 9 [change -] == 1 else, perent ("Ereror:", change) print (" loverested wade", 9) Output Enter string: h panily list positions: [1,2,4,8] Emal envodeded data: [0,1,1,0,0,1,0,0,1,0,1,0]

Exade: [0,1,1,0,0, 1,0,1,1,0,1,0] 18 Binny: [0, 0, 1,0,] Emerous 5 (worded lade: [0,1,1,0,1,1,0,1,1,0,1,0] Remell. generaled dearminglode: 110111011000011100101101100011101100011 Hamoning lode witherwor: 1/1/10/10000/1/100/0/0/10/100/1/0/1/ bron delected of position:3 bouted hamming lade: 1101110110000 71100101011011000111011 Correlled bitat position 3:0 ite about the so biteline and profit the safe was a second Thus The Mainming were detection and werealion is applied and output is verified. 62 July Math Signa & tod in the I good Man is the first of the series of the series