Ex. 100.6. Irlamming cools: Korolyan py del calc - parity - positions (m): while 2++ x 1 m + x +1? V +1=1 del reduckform-ckonnol(); with open ("Channel txt", " r") es f: () back . A metor des detect and connect - corner (data, x): n: len (data) Result = 682 (data) 0= log romes for i in rarge (v): id x = 2 + + ; -1 parity = 0 for i in nange (1, 11+1): if. 32 (34+1) !=0: parity = int (esselt (i - 1]) conor pos t= poity * (20 k; il error 205 >0: paint (d"ERROR detection & position: ("E 809 - narra } tlosen fi 'i'= [1-209 rome I tloses print (f" corrected data: l'ioin ("&(+10801))

elso: print (" No arrors detected") (+ loser) riol . ' nueton def semove parity bits (data) 17 - Lon (data) []= Hosen for i in varge (1, 17+1): if (2(1-1) = = 0: continue. nexult. append (data () (tloser) riol. " nuter day birrary to test (birrary) ? text : 1. Join (Chr lint Chrang (:: 1 + 8], 2)) for i in range (or len (binary 1, 8)]) tret rictor des transing-derode (): encoded data = need - foom Charrel m= len (-encoclard = date) raide-posity position (m-len) liter i in verge (n) it i & (in) 1150== correct d - data = detect - and correct error (encoder dato, v) data without party = namo ve-parity bits connected data, 1) decoded - Reset = binary to lesset (data without pority)

retorn decoded text. deroclack faset homming derocla ()
print (f" Do cooled fort of paradad faset) SENDER, PY des texal charid and feed feb notern' ', join (format l'arel (i), '086' fer (7.70 taxt) def cale = parity = positions (m): while 2++ x 1 my ++1 netur Yhinso the state of des insut-perity-bits (data (+): no len (alata) sexult = ['O'] = (n+r) 200 1 total and Mayor And : (It (tluber) as , 1) agral is inot if 18 (i-1)==0: Continue Nevel+Pi-17: dasta(j) its the alonge I larred at was Colored riot. ' nestor def Sot-parity-bits (data, to); no landata) (stab) test = tlucar

far i in range (x): id x = 2 + + ; - 1 parity = 6 toni in songe (1, 1) 1858 (2 + +;) 1 = 6: ([F- [] fluxer) tri = 1 Hing nosut [idx] = 81x (parity) return! Soin(nossity) de hamming - arcade (4 arc +): binary-data = fext to binary (lext) molar (binary adata) r: Colc - parity - positions (m) data = with parity = jalent = porty bits (binary - data , +) excald-data : set parity bits late with parity or neture concodied data des Save to change l'encode date with open ("chagnal. Axt" "w") -st. (stab , subonal et in will!) (": lone at too at not my ") Mappel : ") remoded - data - hamming - ancode (bust Save to charnel (encoded dater print (8" ancode data land to "channel. txt". { ancodad, duta 3") V solde) child sting tol gel

