Question: Implement CRC-16 en aprogram

Ane

(ode: import hashlib

det xor(a,b):

nesult =[]

for i en range (1, len(b)):

if a[i] == b[i]:

sesult.append('0):

clse result append ('1')

mod-to-div (dividend, divisor); det

pick = lon(divisor)

tmp = dividend(o; pick)

ulile 'pick < ten (dividend):

if trup (0) == '1';

tur = xor (divisor, tmp) + dividened [pick]

else :

+ mp = xor ('0' + pick, +mp) + divided [pick

pick+=1

if 'tmp[0] == '1':

tmp=xor(divisor, tmp)

tms = xor ('0' x pick, tmp) childwood = tmp netwer checkword encode bata (duda, key): L-key = len(key) appended-data = data + 'o' x (1-kay-1) re mainder = mod-to-div (appended-data, ley) codeword = data+ remainder neturn codeword det de code Pata (code, key); remainder = mod-to-dis (code, key) return remainder data = Priport (" Enter Data; ") Huges imput print ("Dataword; "+ stro(data)) Key = "10001000 000 100001" prino ("beneatity polynomial;" they) rodenord = enrodepata (data, key) Print ("Cheucsum;", codeword) Print ("Transmitted Kode word" "+ str (code word)

det

code = input ("Even Arransmitted (adeutord;")

recedened bada = int (decode Botta (rode (Lou)))

it receved bada == 0:

print ("No Error")

else

print ("Error")

Dherkot