KSA Algorithm 1) P=17,2=11 n= Px2= 11x17=187 P(0) = (p-1) (2-1) = 16 \* 10 = 160. Gld (e, qcn) = 1 choosenGid (7, 160) = 1 So e=7 de= ( mod pcn) d = e mod d(n) vo. d = ((¢(m)\*i)+1) Dhen°=1 (160 €1) +1) 50 public = {7, 187}  $=\frac{161}{7}=23$ Phrate = { 23, 63. Sq d= 23)

consider plaintent = 88.

c = 88 mod 187

887 mod 187 can be brûtten as

(884 mod 187) x 188 mod 187) X (88 mod 187) mod 187

by emploity propeers g modulas

aeithemetic.

88 mod 187 = 88 882 mod 187 = 27 884 mod 187 = 132

50 887 mod 187 = (884776132) mode

= 11

Fro dereptor M= 1123 mod 187 1123 mad 187= [111 mod 187) x (Tmod D(114 mod 187) & (118 mod 187) 6 /118 mod 187) mod 187 11 mod 187 71 112 mod 187 = 121 114 mod 187 = 55 118 mod (8) = 33 So 1123 mod 187 = (11/21/21/0557633/633) mod 182 = 88