HUAC (Hash Based Authorication) Code

MD = Message Digest/Hash function und

M = The Input Melsone

L = The number of block in the newser

6 = The No. of bits in call block

IK = The Shared Symmetric key to be very in HHAC

iPad = String 00110110 repeated b/8 times opad = String 01011010 repeated b/8 times

1. Make the Levith of K could to b

- Levith of K & b

- K = 5

- K = 5

2. XOR K with i fad to Produces1

51 = 1c(+) i pad

3 Appud Mtosi Sili M

H = MD (S1/M) XOR KWIM OPAN S_= K(F) opay Appund: H +052 52 1, 1, H HMAC = MD (S211H) Rimitle roly G= <Zn, x> When the grant on element is same as rdu of birroul that dement is called primitibe hot of try - The robe of an element, a, is the small entired integer i suchtent at = e(mod n) = au (mod n/=e Find the primit belosts of G= (Z10, x) Q(10)= 113,7,9 4 = 4 1,2.andby

1 = 1 mod(0) Ad(1)=1 3 = 3 mod (e), 3 = 9 [mod 10] 3 = 1 (mod 10) ord(3)=4 7 = 7 (mod 10), 7 = 9 (mod 10), 7 = 1 (mod 10) ord (7)=4 9 = 9 (mod (0), 9 = 16mod (0), 9 = 1 mod 10 6= <Znx, x> has frimit be