page No. S042 Date: / / I SP ASSIGNMENT 01 n=7 q=5 Brivate key of Bob = 6 Public key Of Alice = Public key Of Bob = 5"mod 17" 5° mod 17 = 13 Lecret key obtained by Alice = Decret key obtained by Bob = = 2" mod 17 = 136 mod 17 = 16 · = 16 do both object the same value of sever key = 16

page No Date: / / Encryption & Recyption of Cipher = Encryphon: - To generale key :def enought ciphen Tent (string, key): key = lar (key) if len (string) == len (key); rerum (kay) for i in range (len (Dring - len (kay)): key append (key [i% len (key)]) . Soin (key) For Encryption :det enought Cikherkent (Dring, key): Ciphen tent = [] for i in range (len (Aring)):

N= ((ord (Dring[i]) + ord (ky [i])) % 26+ord(h)) Cipher _ tent append (Chr(n)). For decryption :det derrypt Expherient (Cipher tent, Key)? Dug ten - [] for i'm range (len (Dring)) :n = ((ord (Ciphen_tent [i]) - ord (key[i])) %26)+ord(4) Origin . append (Chr (n)) Reherer ("" - join (origkent))