NAME- VINIT KANYAL for No - 1121160 det generate Key (smy, key). 3. Ky = list [key). If len (strong) = = len (key); , letrus (ky) for 9 m range (len (smay) - lan (keyl); by append (ky [1% len (ky)]) return ("". Join (key)) det aphentert (string, lacy). Cipher - text = [] for i'en range (Con (string)) X= (ord (smy [:]) + ord (key (i)))% 26 x+ = ord ('A'). cipher_text.append (chr(x)) return ("". Poin(cipheritext))

Auget-

det original Text (cipher-text, key): org-text = []. for 9 92 range (len (ciphen-text)); x = (ord Capher_text(?)) - ord (tey (?) + 26) % 26 x+= ovd ('A') ong text append (che (x)) return ("". join (ong-text)) if _name__ == "== main_-"; string = "Crayptography" legword: "morarchy": key = generateky (string, keyword) aiphen-text = aiphen Text (string, keyround) print ("Ciphertext:", ciphertext)

print ("Ciphertext:", ciphertext)

print ("Original / Decaypled Text:") Original Text (cipher-text, key!)

Aunt

4) Proport math, random def generate OTP (): digits = "012348-6789" OTP = " " for in range (U): OTP + = digits Emath. floor Crardom. vandom () * 10)] letun 07P of __name == "__main__": print ('OTP of 4 digits: '1 generate OTP())

print

5-) det enceypor (Lext; s): result = "" for ?? n range. (ten (text)): char = text[i] El Cohar. isupper ()): result t = che (covol (chou) + 5-61) % 26+61) result += che ((ord (char) + s - 97) % 28 + 97) return result text = "Attack from North" print "text": " + text print "Shift by: " + shr (s) print "Cipher: " + energypt (text,s)

-Augst