Name: Paoja Bisht Course: BCA - B' (6th Sem) Subject :- Information Security lab Paper Type: - Regular (Lend-term Practical) Rall No :- 1121101 (20) Cernail Address : poojabisht 031@gmail.com.

- (1) (a) Symmetric key encryption with receiver
- (2). (c) sogo spymane
- (3) (c) An authentication of an electronic Record.
- (4) (d) None
- (5) (a) only on alphanumeric
- 6 (c) All
- (7) (a) hash value
- (8) (b) The sidentity of the character is changed while its position remains uncharged (9) (b) to make even no. of letters.
- (10 (a) Total length of word.

-fooja

3 WAP for the encuption I decryption of the vignere cipher on the input. plaintext = " (supploguaphy" with a Key = 66 Monauchy 99. def generatekey (storing, Key): key = list(key)

if len (string) == len (key); return (key) for i in range (den (stoing)-tent Key, append (key [i % len (key)]) ocetwern (66 99, join (key)) def enceyption (string, key): encupt-text = [] for i in range (len (string)): 2 = (ord(string [i]) + ord (key [i])) 2 + = ord(6A')

encoupt-text.append (char(x))
vetuen (66 ??, join (encoupt-text)) def decemption (encupt-text, key): orig-text = [] for i en reange (den (encrypt stert): x = (ord (encupt: text[i]) x+= ord (6A?) orig text. append (chare (x)) return (66 ??. join (orig-text)) if -- name -- = 16_-main_- "?" String = 66 Couptography? Keyword = 66 Monarchy 39 Key = generatekey (string, keymord) encuypt-text = encuyption(string, key) print (66 encurpted message; ", encurptprint (66 Decrypted message: ", decryption Cencupt-text,

Tools

Descriptine Answers :-

1. WAP to implement OTP (one Time Password)

Import math, random

def generateOTP():

clio strung = "0123456789"

digits = 66 0123456789"

OTP = 66 99

for i in range (4):

OTP+ = digits[math.floor(random.

Mandomo

retwin OTP

* 10)]

if -- name -- = = 66_- main -- 99 8

pount (66 OTP of 4 digits ;", generale OTPU)

togs

5) WAP to împlement encryption and decryption using ceaser cipher on the input plaintext = 66 Attack from Noeth". point (66 Perform Encryption:") def encuyat (text, s): result = 66 99 for i in range (len (text)): char = text[i] if (chave. isupper ()): oresult = result + chr ((ord (char) +5-65) % 26+65) else: result = result + che (lord (char) +5-97)%26+97) setuen result text = 66 Attack from Nouth? point (66 Plain text: ", text) print (66-lenerypted text; 99, enerypt (text, poeint (« Perform Decryption; ?)

def decoupt (text, s): ouselet = 66 99 for i in range (len (text)): char = text[i] if (char. isupper ()); result = result + cher (lord (char) -8-65)% 26+65) else: oresult = result + chr ((ord (char)-5-97) 7, 26+97) sieturn siesult texts = encrypt (text, s) point (66 Decrypted text: 37, decrypt (text, s)).

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