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Roll No.: 20 Subject: Cryptography and System Security T.E. -Sem VI

	Caesar Cipher						Name:- Kritarth Kambli TE-Sem I Roll No:- 20				
Q.)	Plaintext	:- so	METIN	IES Y	(OU -	UCCE	ED f	ND C	THERT	IMES	YOU LEARN
A:-	Alphabet 2 values										
	A	В	C	D	€	F	a	Н	Т		
	1	2	3	4	5	6	7	8	9		
	J	K	1	M	N	^	P	(0)	D		
		11									
		T 20									
	We know, for Caesar Cipher, key = 3. So letters A to W:- Ciphertext (letter) = Plaintext (letter) +3										
	E.g:- Cipher(L) = Plain(L) +3 Cipher(L) = 12 +3 = 15 Cipher(L) = 0										
	and for letters X, Y & Z:- Cipher (letter) = Plain(letter)-23 Cipher (X) = Plain(X)-23 Cipher (X) = 24-23 = 1 (ipher(X) = A										
	Hence, applying Caesar Cipher on given plaintext, we get: - WR VRPHWLPHV BRX VXFFHHG VRPHWLPHV BRX OHDUR										

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```
caesar_cipher.py > ...
      def encrypt(text,s):
          result = ""
         for i in range(len(text)):
              char = text[i]
              if (char.isupper()):
                  result = result + chr((ord(char)+s-65)%26+65)
              elif char == ' ':
                  result = result + " "
              else:
                  result = result + chr((ord(char)+s-97)%26+97)
          return result
      text = input("Enter a sample plain text :")
      s = int(input("Enter key/cipher :"))
15
      print("Plaintext :"+text)
      print("Key :"+ str(s))
      print("Ciphertext :"+ encrypt(text,s))
```