

Expt.No: 1

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Date:

Caesar Cipher

Aim:

To implement encryption & decryption in Caesar cipher.

Algorithm:

Step 1: Get the plain text from the user.

Step 2: Get the shift value between 1 & 25 from the user.

Step 3: Create a new alphabet by shifting each letter by the shift value.

Step 4: Replace each letter of the message with the corresponding letter of the new alphabet.

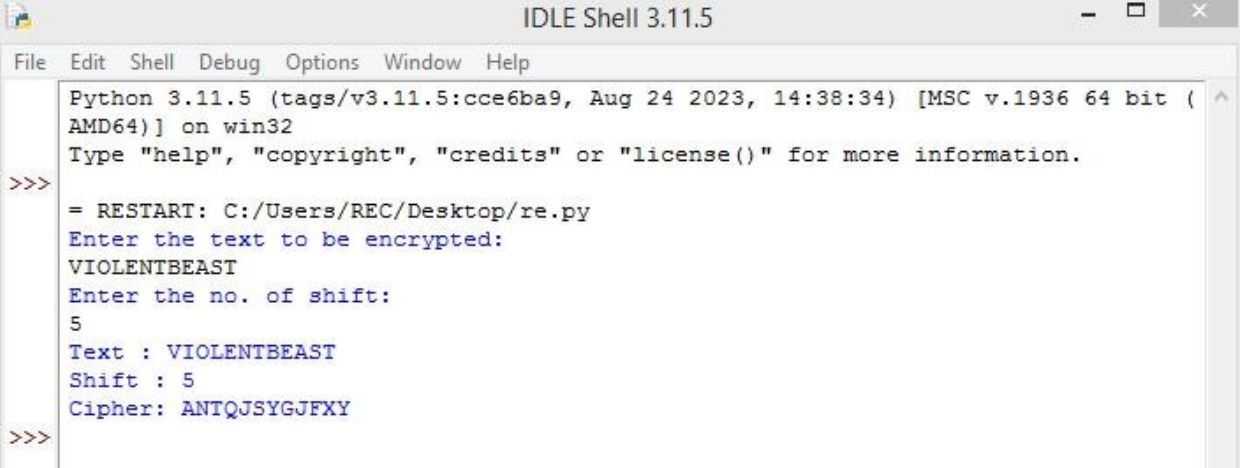
Step 5: Print the encrypted message as output.

Program:

```
def encrypt(text,s):
    result = ""
    for i in range(len(text)):
        char = text[i]
        if (char.isupper()):
            result += chr((ord(char) + s-65) % 26 + 65)
        else:
            result += chr((ord(char) + s - 97) % 26 + 97)
    return result

text = input("Enter the text to be encrypted: \n")
s = int(input("Enter the no. of shift: \n"))
print("Plain Text : " + text)
print("Shift pattern : " + str(s))
print("Cipher text: " + encrypt(text,s))
```

Output:



```
Python 3.11.5 (tags/v3.11.5:cce6ba9, Aug 24 2023, 14:38:34) [MSC v.1936 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/REC/Desktop/re.py
Enter the text to be encrypted:
VIOLENTBEAST
Enter the no. of shift:
5
Text : VIOLENTBEAST
Shift : 5
Cipher: ANTQJSYGJFX
>>>
```

Result:

Thus the encryption & decryption in caesar cipher using python is implemented.