

Expt.No: 3

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Date:

Railfence Cipher

Aim:

To implement encryption of plain text using Railfence Cipher.

Algorithm:

Step 1: Get the message from the user.

Step 2: Divide the message info into rows.

Step 3: Write diagonally.

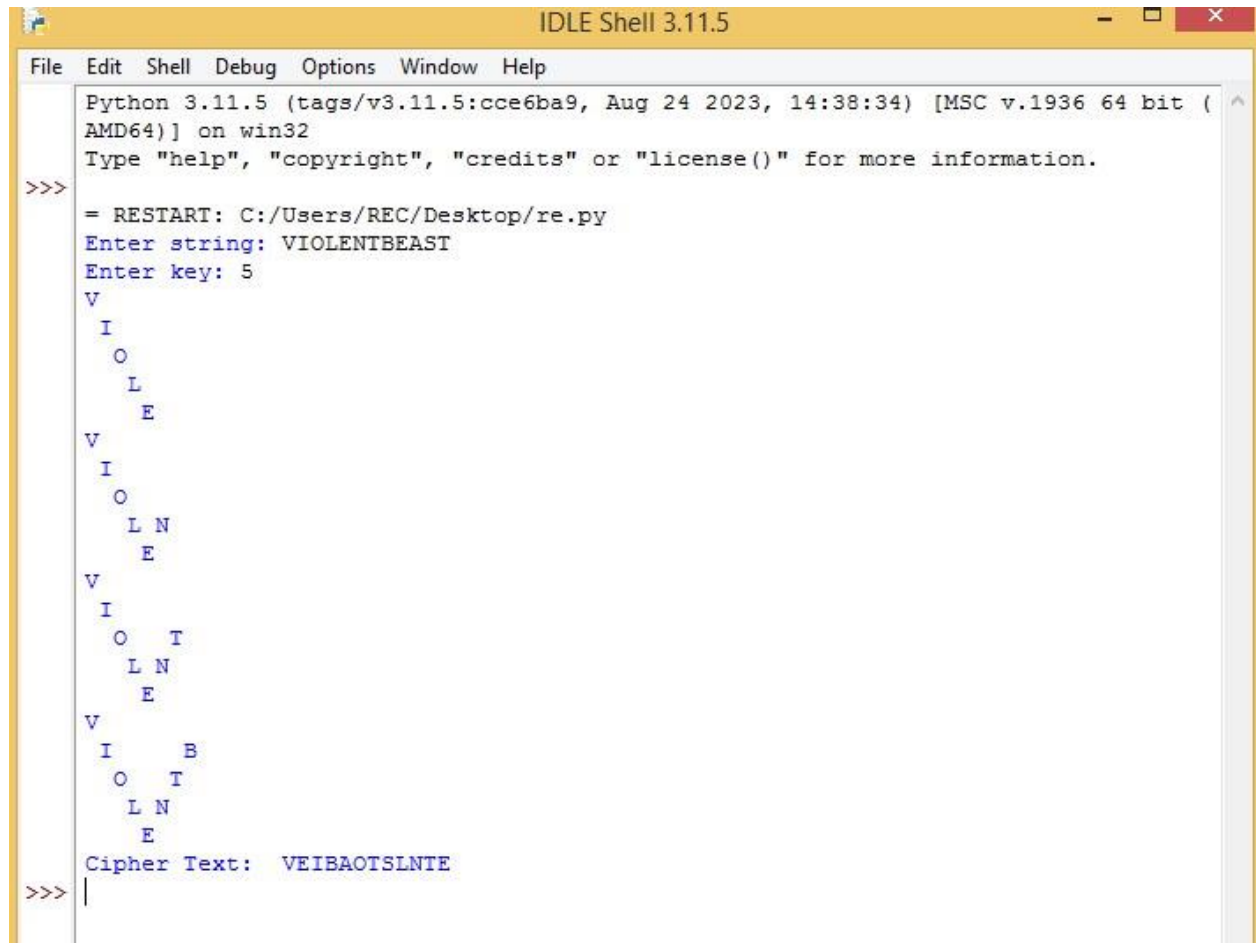
Step 4: Read by column & print the result as output.

Program:

```
s=input("Enter string: ") k=int(input("Enter
key: "))
enc=[[" " for i in range(len(s))] for j in range(k)]
flag=0 row=0 for i in range(len(s)):
enc[row][i]=s[i] if row==0: flag=0 elif
row==k-1:
flag=1
if flag==0:
row+=1
else:
row-=1 for i
in range(k):
print("".join(enc[i]))
ct=[] for i in
range(k):
for j in range(len(s)):
if enc[i][j]!=' ':
```

```
ct.append(enc[i][j])
cipher="".join(ct)
print("Cipher Text: ",cipher)
```

Output:



```
IDLE Shell 3.11.5
File Edit Shell Debug Options Window Help
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 string: VIOLENTBEAST
Enter key: 5
V
 I
  O
   L
    E
 V
  I
   O
    L N
     E
 V
  I
   O T
    L N
     E
 V
  I     B
   O T
    L N
     E
Cipher Text:  VEIBAOTSLNTE
>>> |
```

Result: Thus the encryption of plain text using railfence cipher is implemented.