Ques 8. Implement row transposition cipher transposition operation.

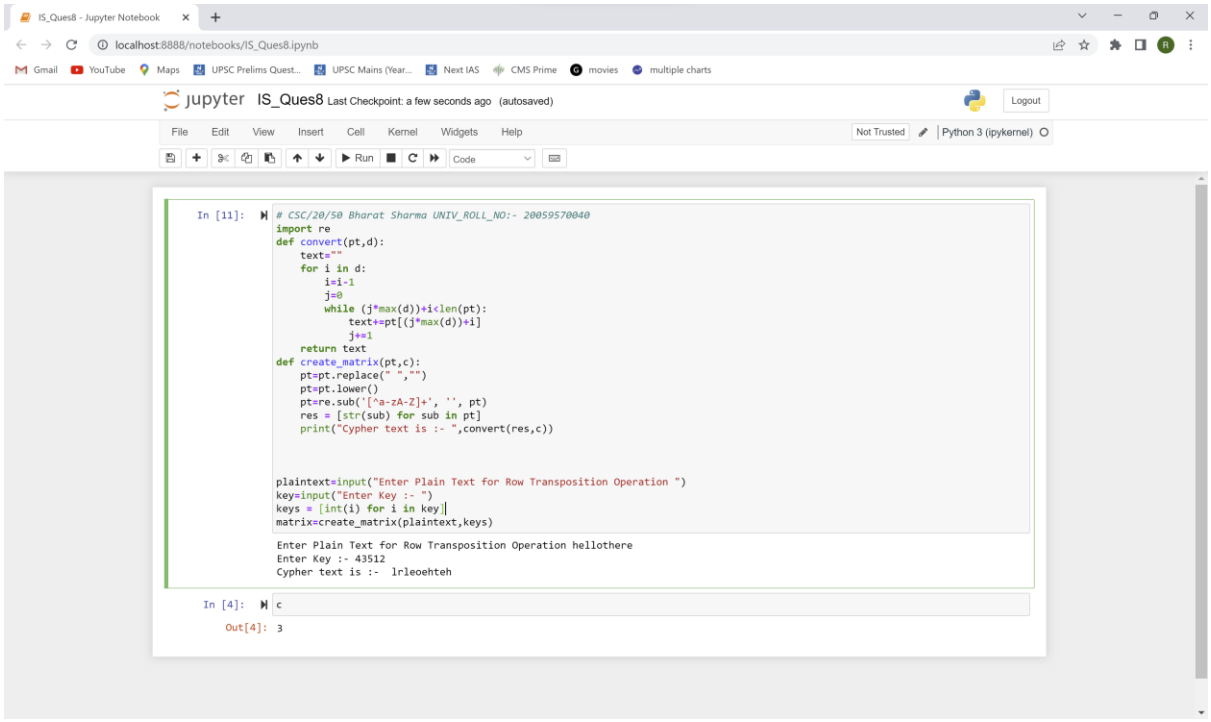
Ans:-

```
# CSC/20/50 Bharat Sharma UNIV_ROLL_NO:- 20059570040
import re
def convert(pt,d):
    text=""
    for i in d:
        i=i-1
        j=0
        while (j*max(d))+i<len(pt):
            text+=pt[(j*max(d))+i]
            j+=1
    return text
def create_matrix(pt,c):
    pt=pt.replace(" ","")
    pt=pt.lower()
    pt=re.sub('[^a-zA-Z]+', '', pt)
    res = [str(sub) for sub in pt]
    print("Cypher text is :- ",convert(res,c))



plaintext=input("Enter Plain Text for Row Transposition Operation ")
key=input("Enter Key :- ")
keys = [int(i) for i in key]
matrix=create_matrix(plaintext,keys)
```

OUTPUT:-


IS_Ques8 - Jupyter Notebook
localhost:8888/notebooks/IS_Ques8.ipynb
Gmail
YouTube
Maps
UPSC Prelims Quest...
UPSC Mains (Year...
Next IAS
CMS Prime
movies
multiple charts
jupyter IS_Ques8 Last Checkpoint: a few seconds ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [11]:
# CSC/20/50 Bharat Sharma UNIV_ROLL_NO:- 20059570040
import re
def convert(pt,d):
text=""
for i in d:
i=i-1
j=0
while (j*max(d))+i<len(pt):
text+=pt[(j*max(d))+i]
j+=1
return text
def create_matrix(pt,c):
pt=pt.replace(" ","")
pt=pt.lower()
pt=re.sub('[^a-zA-Z]+', '', pt)
res = [str(sub) for sub in pt]
print("Cypher text is :- ",convert(res,c))
plaintext=input("Enter Plain Text for Row Transposition Operation ")
key=input("Enter Key :- ")
keys = [int(i) for i in key]
matrix=create_matrix(plaintext,keys)
Enter Plain Text for Row Transposition Operation hellothere
Enter Key :- 43512
Cypher text is :- lrleoehteh
In [4]:
c
Out[4]:
3