RANK-OF-A-MATRIX

＞ Aim:

To write a python program to find the rank of a matrix

＞ Equipment's required:

1. Hardware – PCs
2. Anaconda – Python 3.7 Installation / Moodle-Code Runner

＞ Algorithm:

＞ Step 1:

Import numpy as np.

＞ Step 2:

Assign in np.array() in rank of matrix

＞ Step 3:

Using the np.linalg.matrix_rank(), we can find the rank of the given matrix.

＞ Step 4:

Print the value and end the program

＞ Program:

```
#Program to find the rank of a matrix.
#Developed by: Dinesh Karthick.K.J
#RegisterNumber:22005847
import numpy as np
a=np.array([[5,-3,-10],[2,2,-3],[-3,-1,5]])
res=np.linalg.matrix_rank(a)
print(res)
```

Output:

	Expected	Got	
✔	3	3	✔

Passed all tests! ✔

Result:

Thus the rank for the given matrix is successfully solved by using a python program.