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 package as np

Step 2:€

Create a matrix using array() function.

Step 3:€

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

Step 4:€

Get the output and end the program.

Program: ₽

```
#Program to find the rank of a matrix.
#Developed by: Harishkumar R
#RegisterNumber: 23013540
import numpy as np
A= np.array ([[1,2,3],[3,6,9]])
rank= np.linalg.matrix_rank(A)
print(rank)
```

СŌ

Output:∂

```
#Program to find the rank of a matrix.
#Developed by: Harishkumar R
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import numpy as np
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print(rank)
```

	Expected	Got	
~	1	1	~
Passed all tests!			

Result:∂

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