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 the numpy module to use the built-in functions for calculation

Step 2:Prepare the lists from each linear equations and assign in np.array()

Step 3: Using the np.linalg.matrix_rank(), we can find the rank of the given matrix.

Step 4: End The Program

Program:

Program to find the rank of a matrix.

Developed by: JOTHIKRISHNAA V

RegisterNumber:212223100017

```
import numpy as np
A=np.array([[1,2,3],[3,6,9]])
le=np.linalg.matrix_rank(A)
print(le)
```

Output:

```python
#Program to find the rank of a matrix.
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```

	Expected	Got	
✔	1	1	✔

Passed all tests! ✔

Result:

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