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Code 

This branch is [2 commits ahead of](#) ArchanaSharikalHarinarayanan/INVERSE-OF-A-MATRIX:main .




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thanushreemuthu 1 minute ago



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 README.md	added	2 minutes ago
 exp3.png	added	1 minute ago

INVERSE-OF-A-MATRIX

Aim:

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

Equipment's required:

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

Algorithm:

Step1 : 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.inv(),we can find the inverse of the given matrix.

Step 4: End the program

Program:

#Program to find the inverse of a matrix. #Developed by: Thanushree #RegisterNumber:24900590 import numpy as np matrix=np.array([[2,1,1],[1,1,1],[1,-1,2]]) inverse=np.linalg.inv(matrix) print(inverse)

Output:

Question 1

Correct

Mark 100.00 out of 100.00

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Write a python program to find the inverse of the given matrix

$$\begin{bmatrix} 2 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & -1 & 2 \end{bmatrix}$$

Answer: (penalty regime: 0 %)

Reset answer

```

1 #Program to find the inverse of a matrix.
2 #Developed by: Thanushree
3 #RegisterNumber:24900590
4 import numpy as np
5 matrix=np.array([[2,1,1],[1,1,1],[1,-1,2]])
6 inverse=np.linalg.inv(matrix)
7 print(inverse)

```

	Expected		Got	
✓	[[1. -1. 0.] [-0.33333333 1. -0.33333333] [-0.66666667 1. 0.33333333]]		[[1. -1. 0.] [-0.33333333 1. -0.33333333] [-0.66666667 1. 0.33333333]]	✓

Passed all tests! ✓

► Show/hide question author's solution (Python3)

Correct

Marks for this submission: 100.00/100.00.

Result:

Thus the inverse of given matrix is successfully solved using python program

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