thanushreemuthu 1 minute ago

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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.

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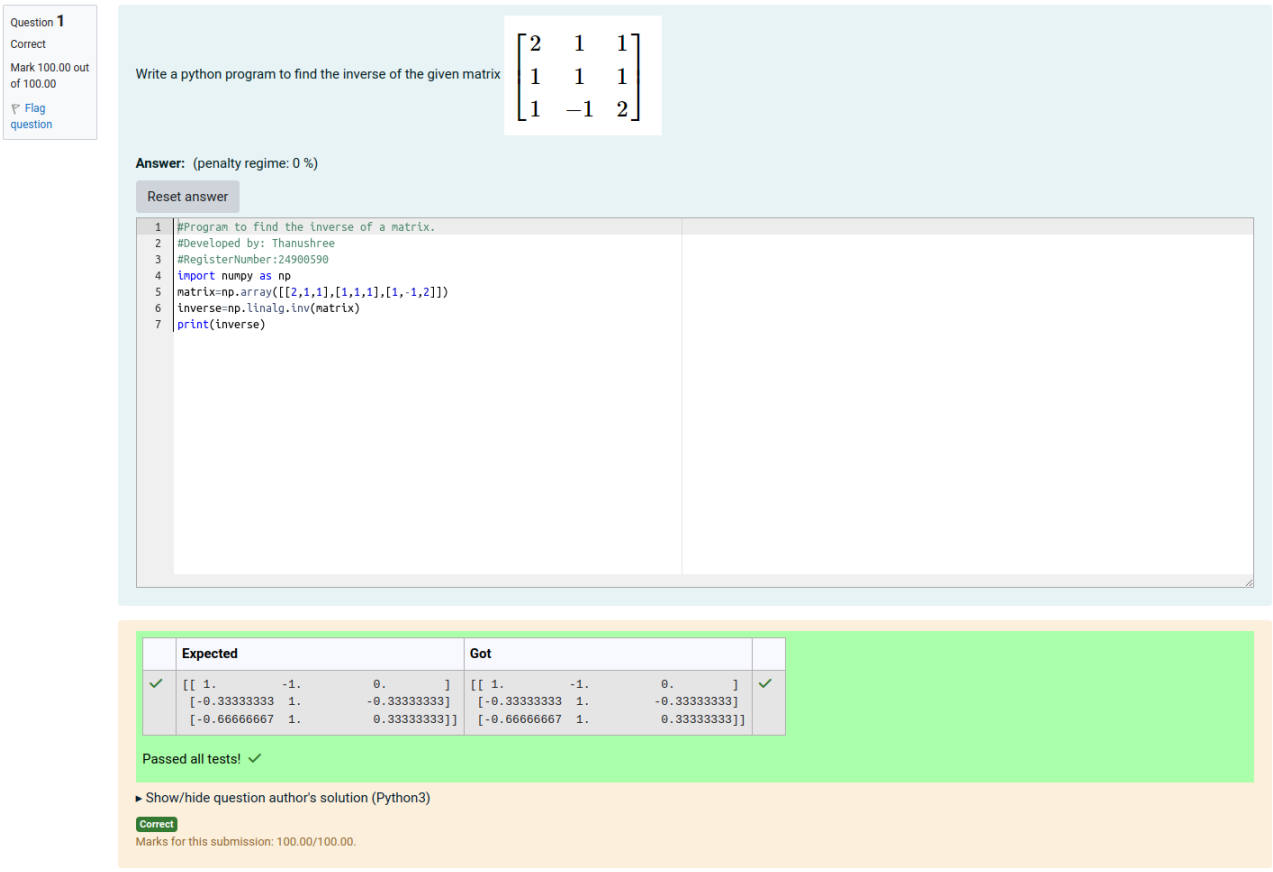
Step 4: End the program

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:



Result:

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

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