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This branch is 4 commits ahead of `ArchanaSharikalHarinarayanan/EIGENVALUES-AND-EIGENVECTORS:main` .

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README License

EIGENVALUES-AND-EIGENVECTORS

Aim:

To write a python program to find the Eigenvalues and Eigen Vectors

Equipment’s required:

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

Algorithm:

Step1 : Import 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.eig(), we get two results (first is eigenvalue and second is eigenvector) of the given matrix.

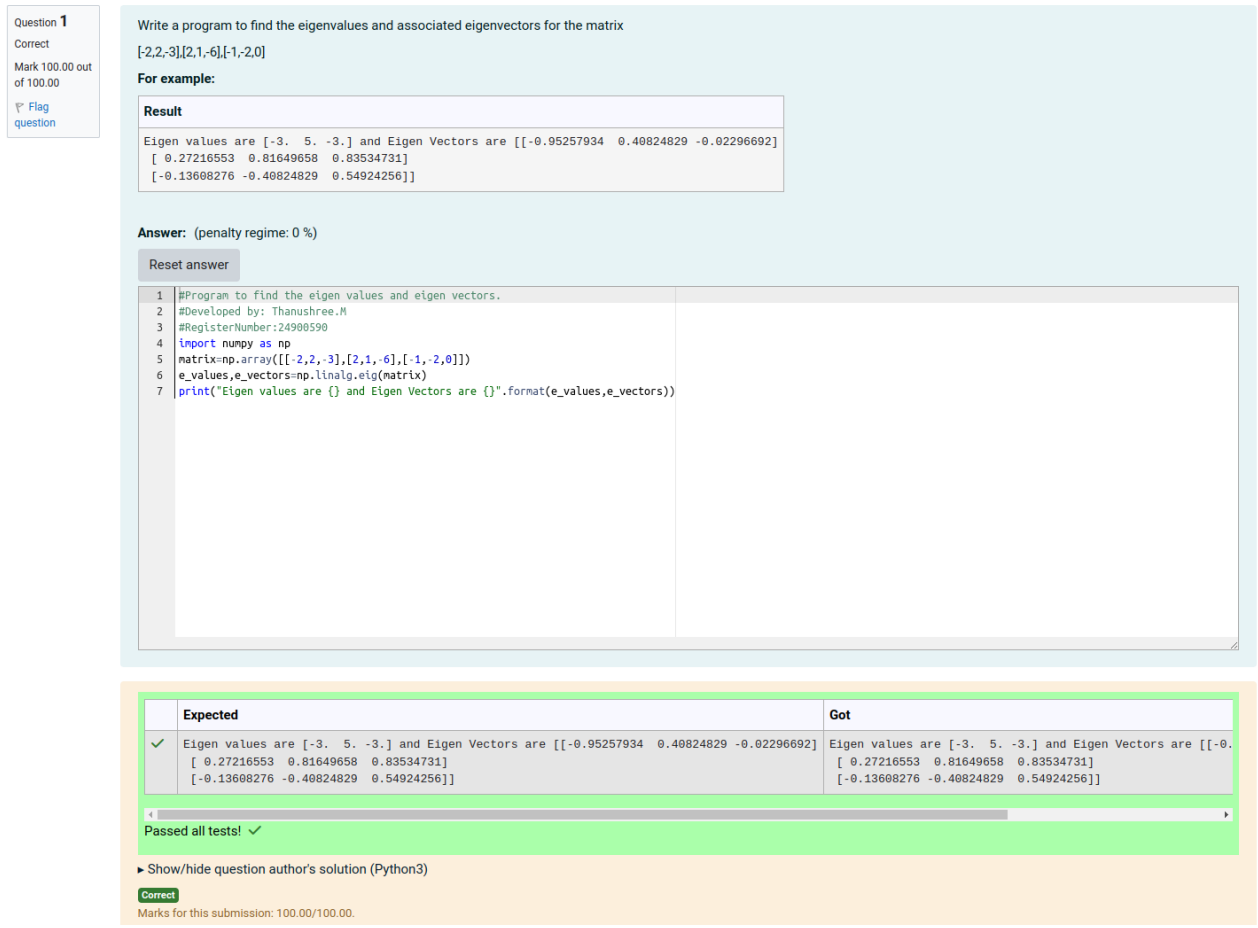
Step 4: End the program.

Program:

#Program to find the eigen values and eigen vectors. #Developed by: Thanushree.M #RegisterNumber:24900590

import numpy as np matrix=np.array([[-2,2,-3],[2,1,-6],[-1,-2,0]]) e_values,e_vectors=np.linalg.eig(matrix) print("Eigen values are {} and Eigen Vectors are {}".format(e_values,e_vectors))

Output:



Result:

Thus the Eigenvalue and Eigenvector is successfully solved using python program

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