

# Midterm\_Exam\_Questions

1. Explain the difference between `np.matmul()` and `np.multiply()`.
2. How do you find the eigenvalues and eigenvectors of a matrix using NumPy? Provide an example.
3. Write a NumPy script to generate a 4x4 matrix of random integers between 10 and 50.
4. How does a box plot help in data analysis?
5. What is a correlation plot used for?
6. What is the purpose of a box plot?. Write a Python function to generate a box plot for a given dataset.
7. Write a script to create a line plot using Matplotlib.
8. Create a NumPy function to normalize a given array (scale values between 0 and 1).

From:

<https://edu.iit.uni-miskolc.hu/> - Institute of Information Science - University of Miskolc

Permanent link:

[https://edu.iit.uni-miskolc.hu/tanszek:oktatas:questions\\_of\\_midterm\\_exam?rev=1757414231](https://edu.iit.uni-miskolc.hu/tanszek:oktatas:questions_of_midterm_exam?rev=1757414231)

Last update: **2025/09/09 10:37**

