**Introduction to Data Analytics**

**Lab report #01**

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Fall 2022

CSE-408L Data Analytics lab

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Registration No: **19PWCSE1795**

Class Section: **B**

“On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Submitted to:

**Eng: Faizullah**

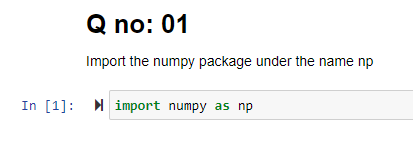
**Nov** 10, 2022

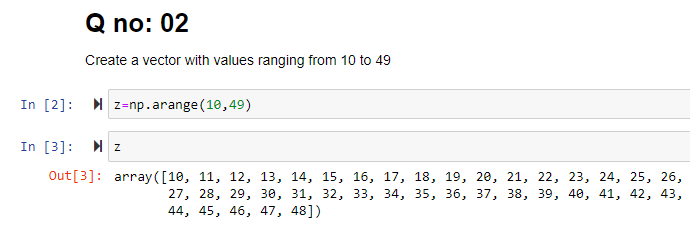
**Department of Computer Systems Engineering**

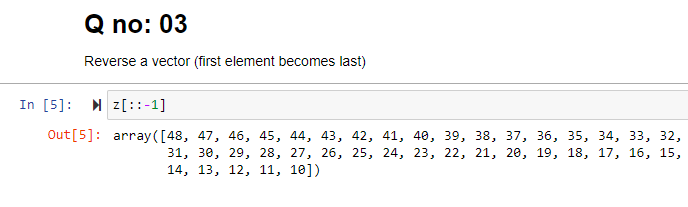
**University of Engineering and Technology, Peshawar**

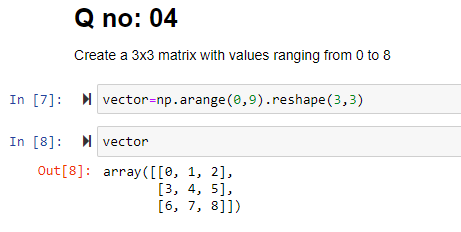
**Task:** Perform the following:

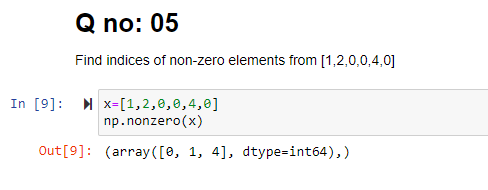
1. Import the numpy package under the name np
2. Create a vector with values ranging from 10 to 49
3. Reverse a vector (first element becomes last)
4. Create a 3x3 matrix with values ranging from 0 to 8
5. Find indices of non-zero elements from [1,2,0,0,4,0]
6. Create a 3x3 identity matrix
7. Create a 3x3x3 array with random values
8. Create a 10x10 array with random values and find the minimum and maximum values
9. Create a random vector of size 30 and find the mean value

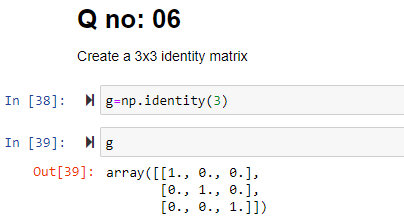


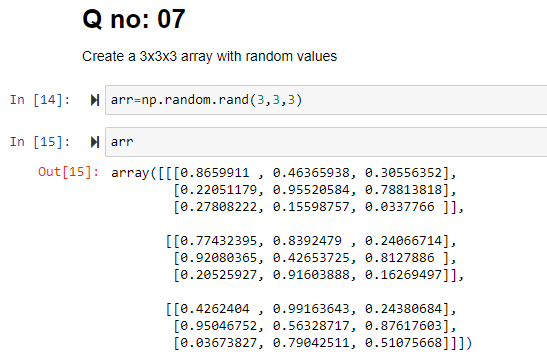


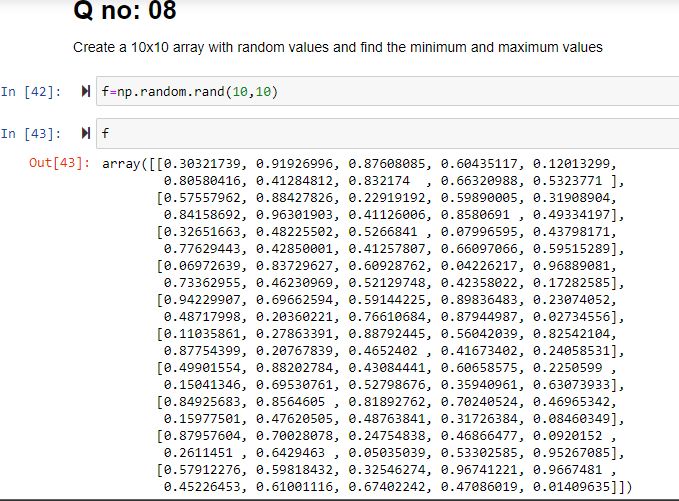


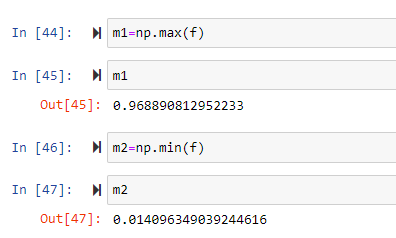


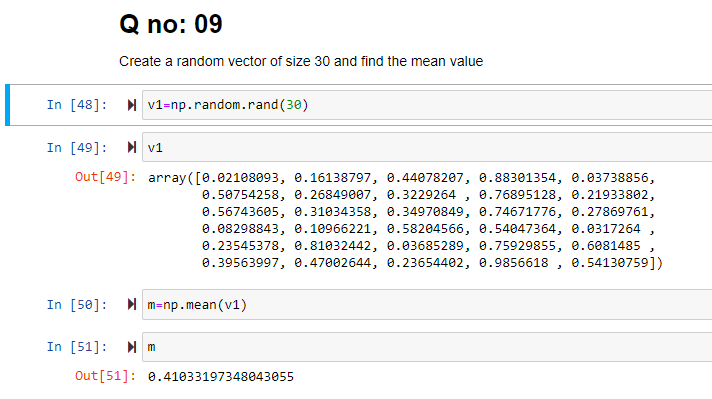












**The End**