Assignment 02 [Numpy, Pandas, Matplotlib]

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e1 A list is given: [34,87,892,920,974,893]

find min, max, mean of the list

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e2 A list is given: [9,56,826,784]

WAP to multiply each element with 5 (without using loop)

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e3 Write a NumPy program to create a random array with 1000 elements and compute the average, variance, standard deviation of the array elements

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e4 A csv file is given to you (wine.csv)

[wine.csv file is shared in the google drive.]

find the following statistics for each column (except first column)

min, max, mean

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e5 Write a NumPy program to generate six random integers in the range provided by the user.

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e6 Write a NumPy program to create a 5x5 array with random values and find the minimum and maximum values.

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e7 Write a Numpy based menu-driven program with the following options:

option1. Enter list data

option2. Find Maximum in the data

option3. sort the data

option4. find the Median of the data

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e8. You have the iris.csv file. Perform the following tasks.

i. Load the iris dataset.

ii. Plot the distribution of each feature

iii. Make a pair of two-two features and plot the 2-D scatter plots.

iv. Make a pair of three-three features and plot 3-D scatter plots.

v. Try to infer information from the scatter plots. (what could be the best set of features for classification of data? Hint: This may need some basic understanding of correlation)