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NumPy Exercises

Reference for some of these exercises is here (https://www.w3resource.com/python-exercises/).

Exercise 1: Write a NumPy program to create a random array with 100 real-valued elements between 1 & 5 and compute the following for this array rounded to 2 decimal places:

- average (that is, the sample mean)
- population variance and population standard deviation (default option in NumPy)
- sample variance and sample standard deviation

Hint: For sample variance and sample standard deviation, use the `ddof=1` parameter value.

Execise 2: Write a NumPy program to get the values and indices of the elements that are bigger than 10 in a given array.

Exercise 3: Write a NumPy program to find the set difference of two arrays. The set difference will return the sorted, unique values in the first array `array1` that are not in the second one `array2`. **Hint:** This is a one-liner.

Exercise 4: Write a NumPy program to calculate element wise round, floor, ceiling, and truncated