Answer of Sheet 1

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Questions

1. How can you create a Numpy array? What is the shape of a Numpy array and how can you get it?

By using the `numpy.array()` function where its aruguments are object and data type.

The shape is a property of the numpy array, it's used to get the current shape of an array.

2. How can you perform element-wise operations on Numpy arrays (list the possible element-wise operations) ?

- `np.add()`

- `np.subtract()`

- `np.multiply()`

- `np.divide()`

- `np.power()`

- `np.reminder()`

- `np.reciprocal()`

- `np.abs()`

- `np.floor()`

- `np.ceil()`

- `np.round()`

3. How to sum all elements of one array ?

`numpy.sum(arr)`

4. How to transpose a Numpy array?

- `a = numpy.transpose(a)`

- `a = a.T`

5. How to transpose a Numpy array?

6. How to transpose a Numpy array?

7. How to transpose a Numpy array?

8. How to transpose a Numpy array?