PYTHON

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**NUMPY**

1. NumPy is a numerical computing library in Python.

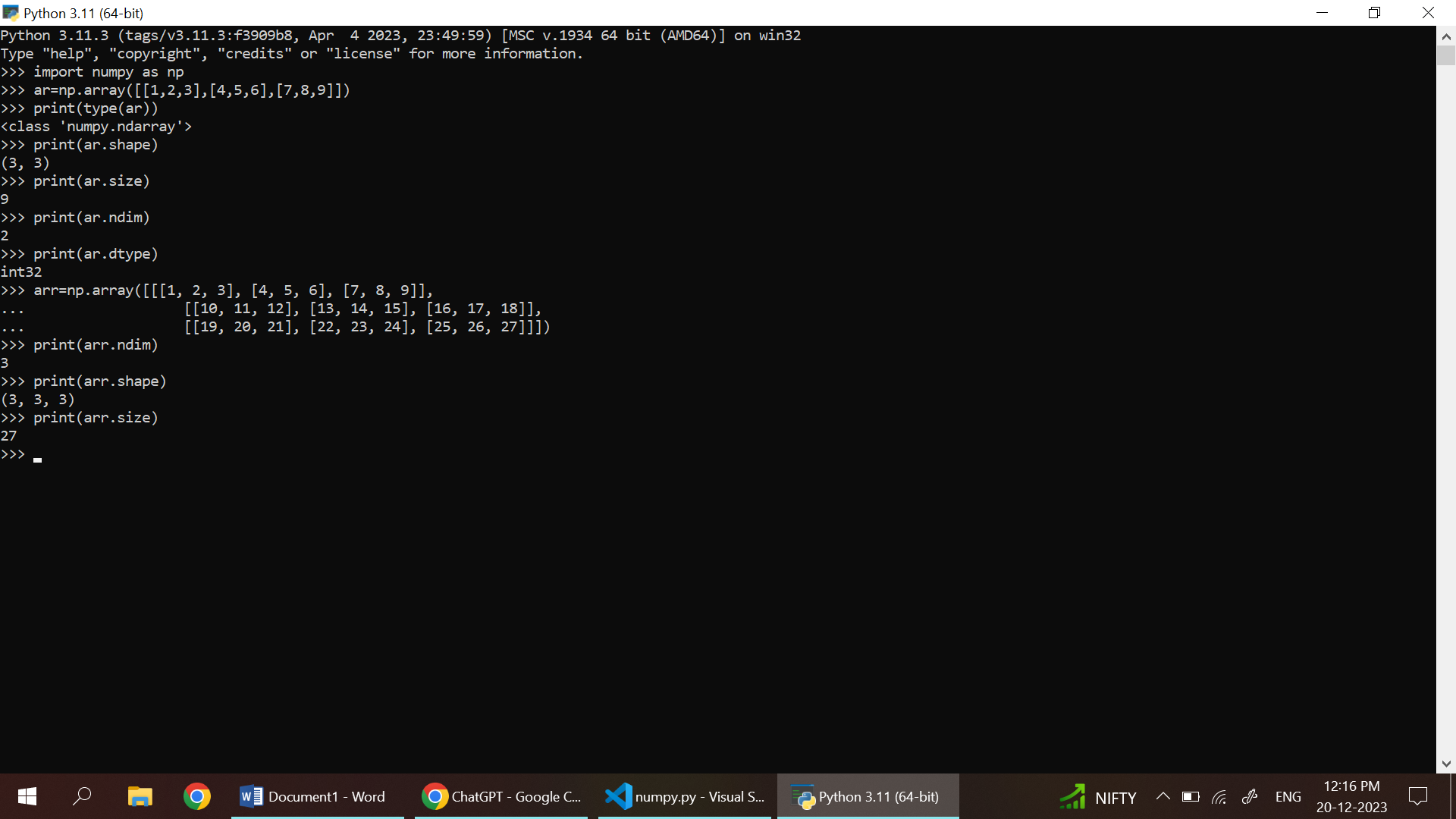
2. Core data structure: NumPy uses the `ndarray` for efficient array operations.

3. Broadcasting: Allows operations on arrays of different shapes.

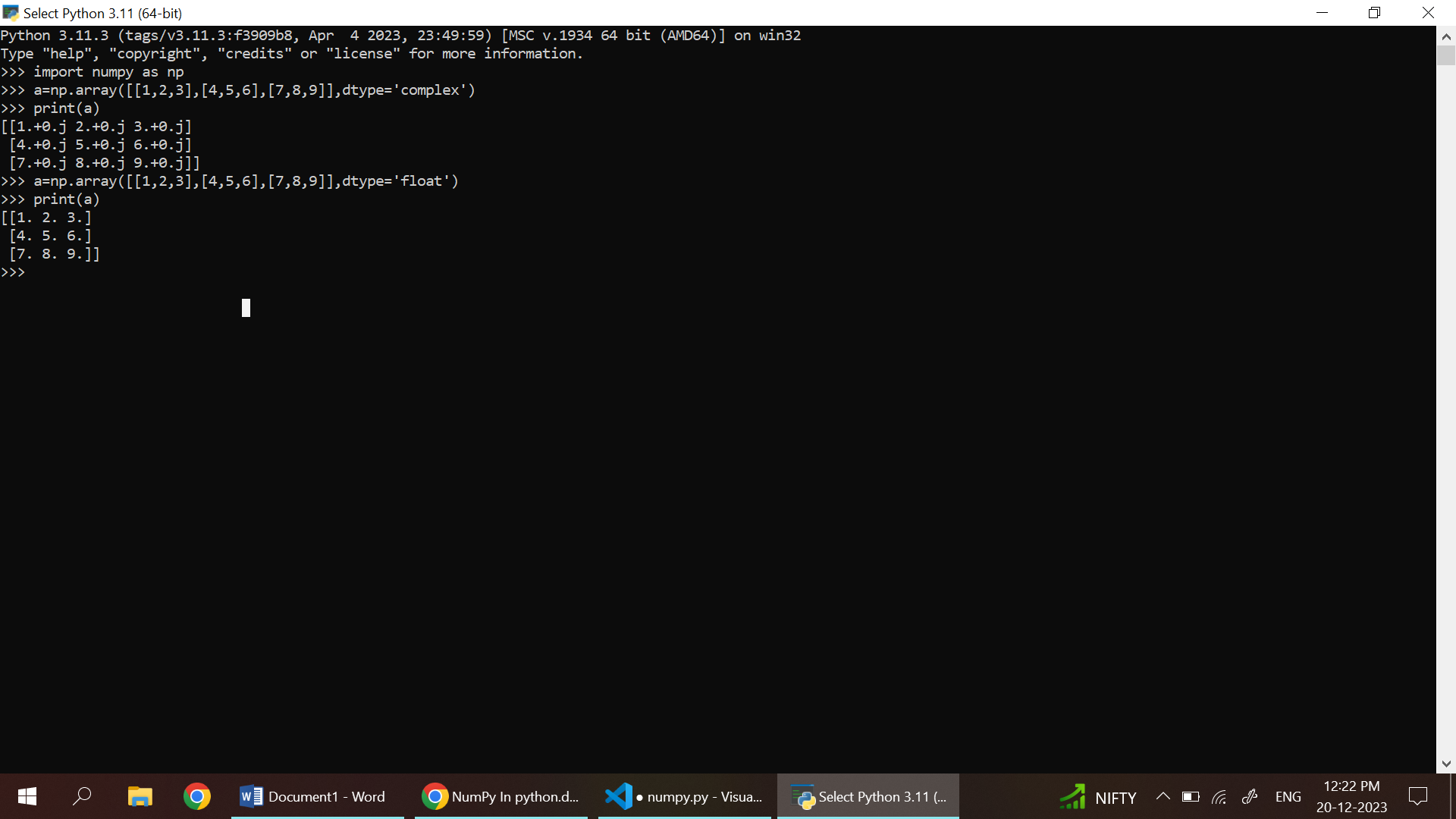
4. Universal Functions (ufuncs): Provide element-wise operations on arrays.

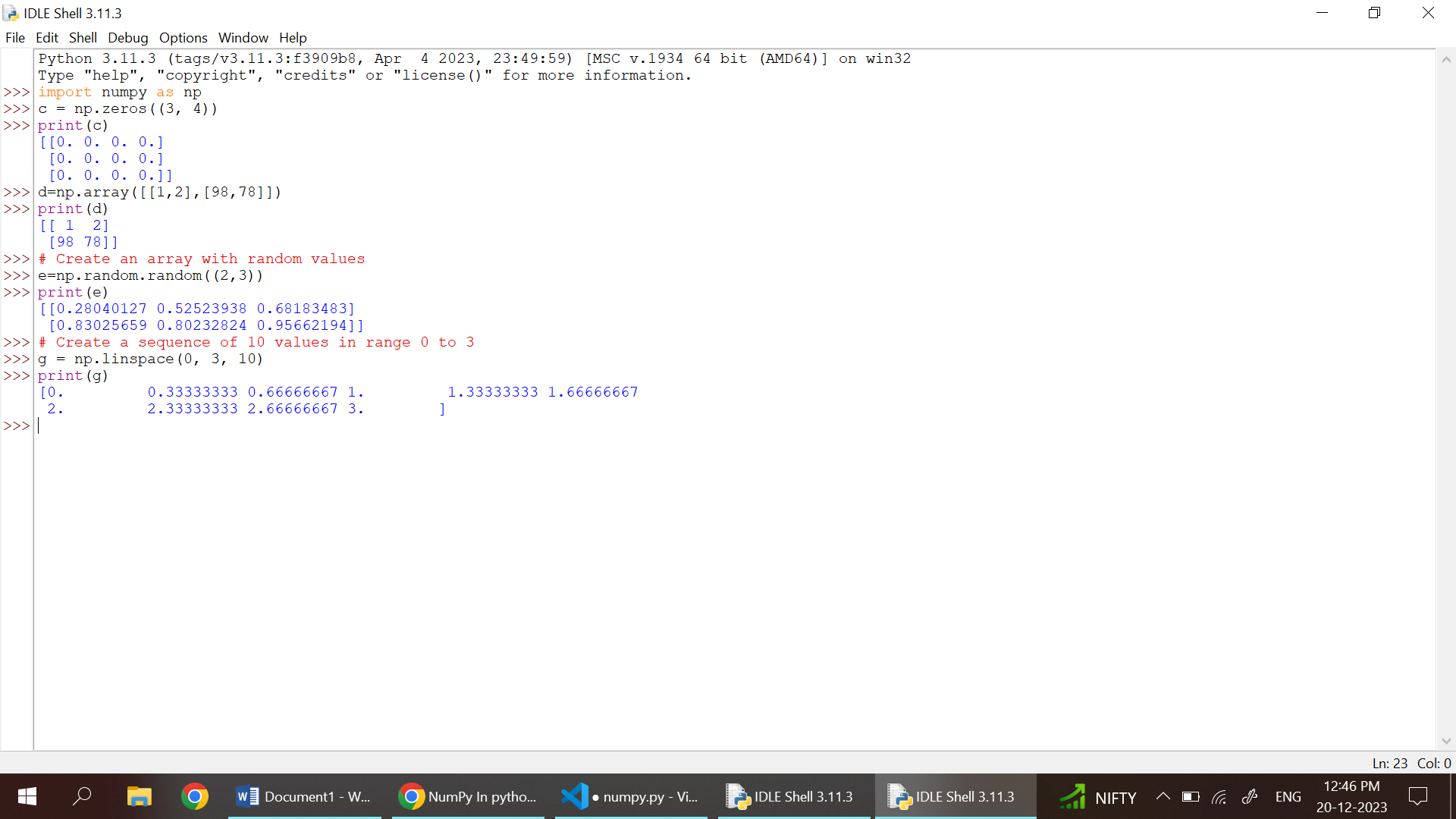
5. Linear Algebra and Statistics: NumPy includes modules for these mathematical operations.

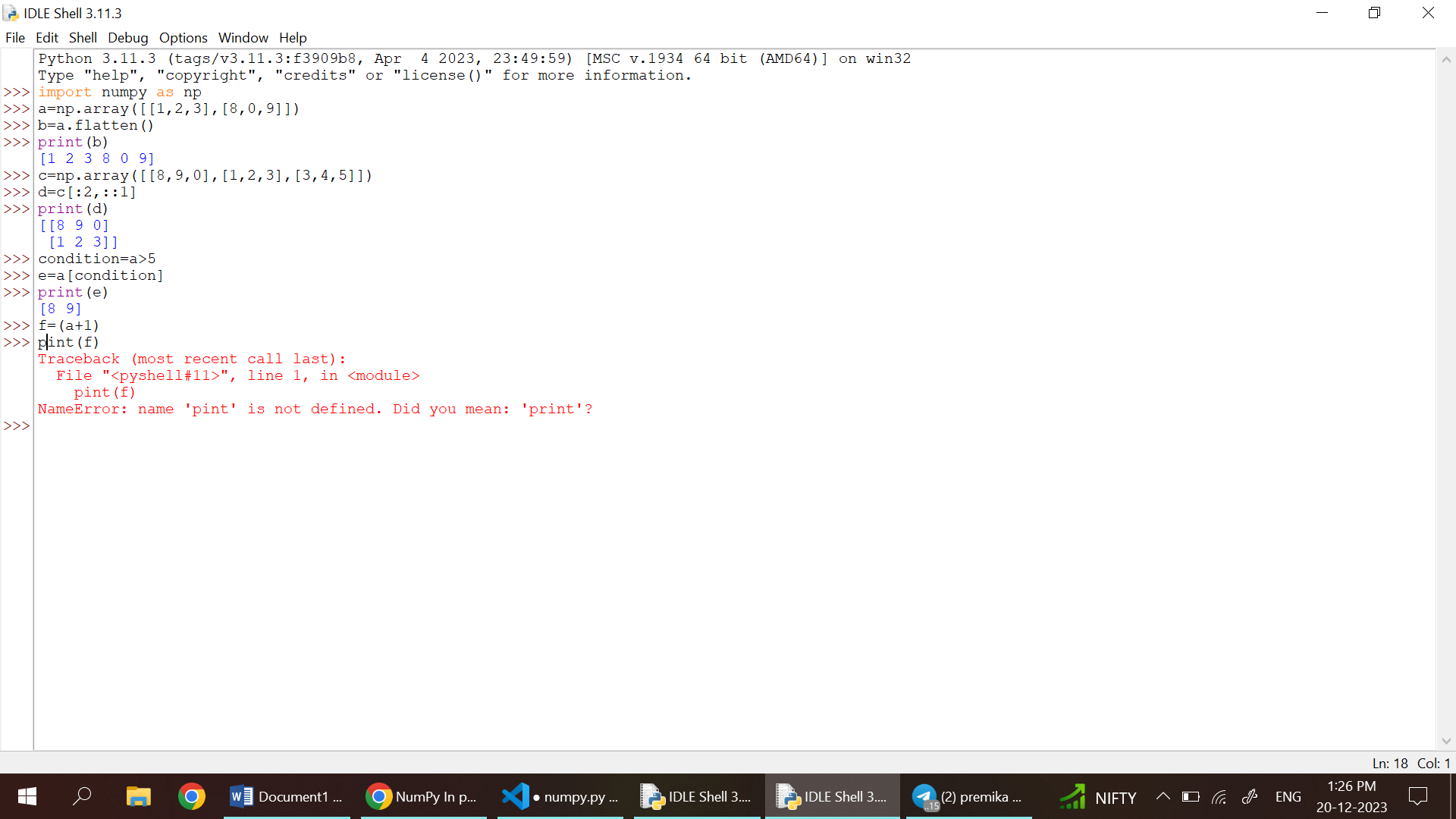
Arrays in NumPy



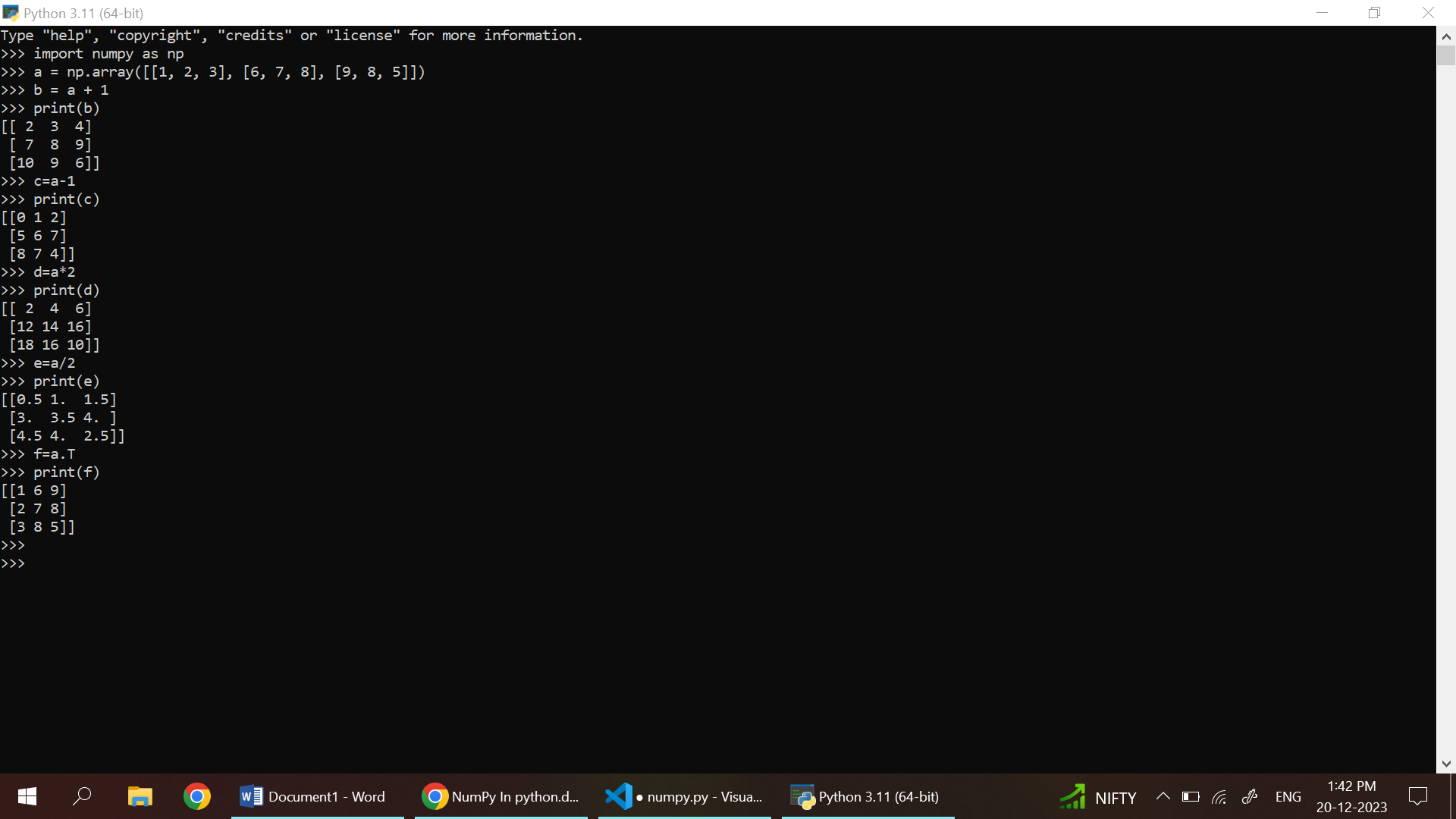
**NumPy Array Creation**



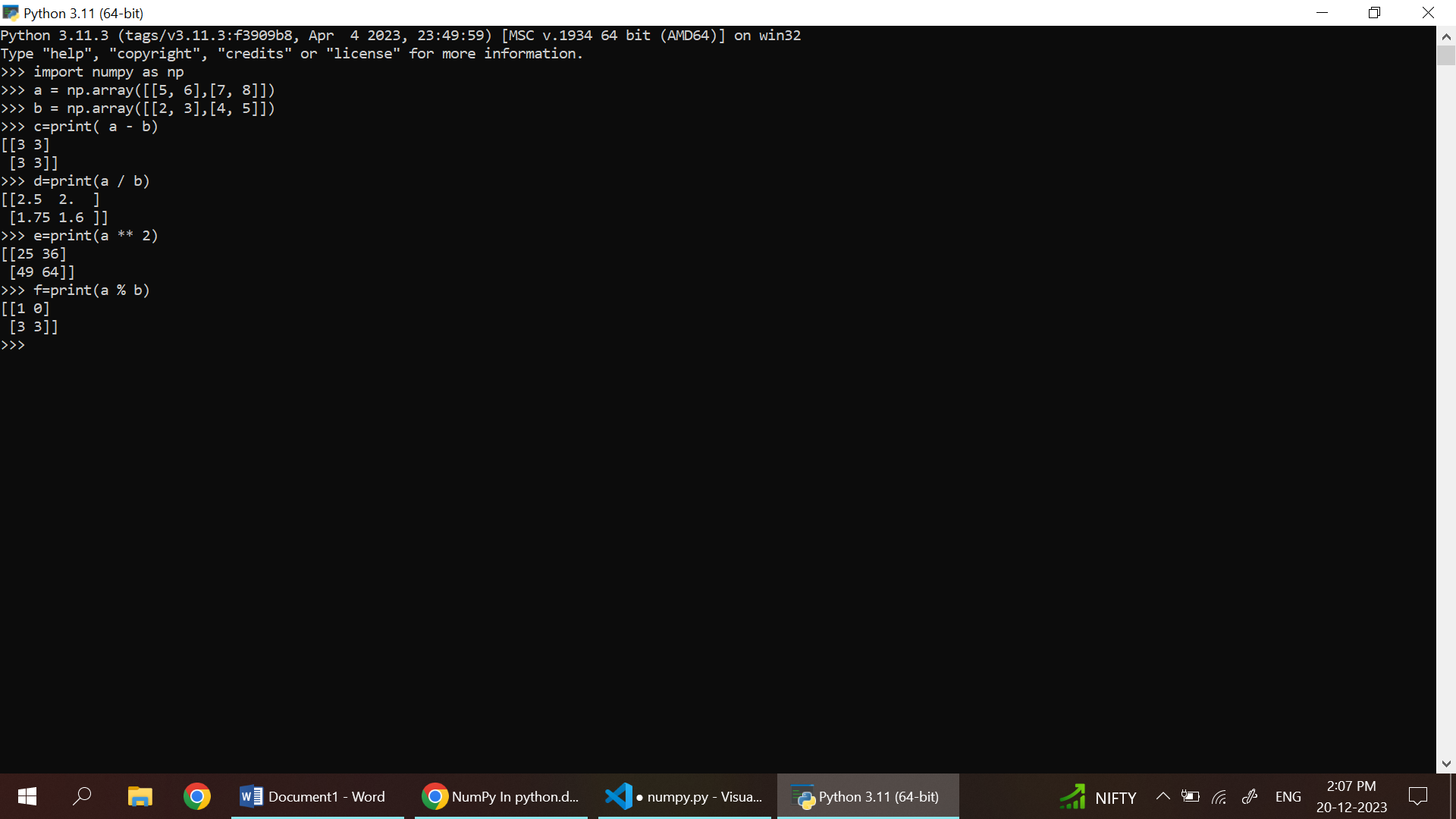




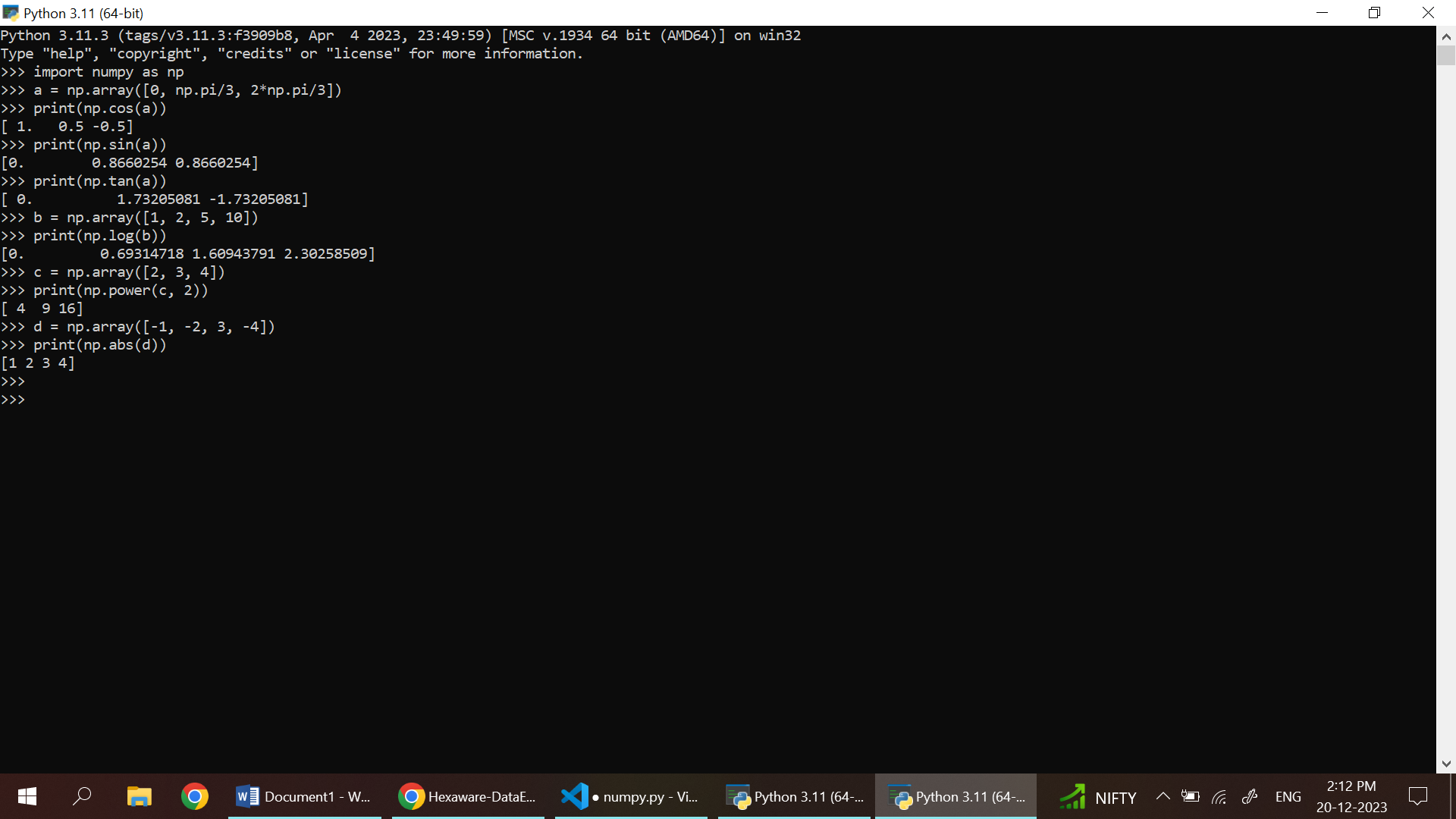
NumPy Basic Operations



NumPy – Unary Operators



NumPy universal functions



NumPy Sorting Arrays

