What is NumPy?

NumPy stands for Numerical Python.

It's used for:

- Working with large arrays and matrices
- Performing math operations on arrays

Installing NumPy

pip install numpy

Basic NumPy Example

```
import numpy as np
# Create a simple array
my_array = np.array([1, 2, 3, 4, 5])
print("Array:", my_array)
# Perform operations
print("Array * 2:", my_array * 2)
print("Mean:", np.mean(my_array))
                                                   Multiply each element by 2
                                                  Average of the array
print("Square Roots:", np.sqrt(my array))
```

Practice Task (NumPy)

- 1. Create an array with numbers 10 to 50.
- 2. Find the maximum and minimum values.
- 3. Multiply all elements by 3.