

## Practice Day 11.5

1 . Create a 1D, 2D, and 3D NumPy array and print their dimensions and shapes.

2 . Create:

- an array of zeros of shape (3,3)
- an array of ones of shape (2,5)
- an array filled with 7

3 . Create an array of even numbers between 10 and 50 using arange.

4 . Create a  $4 \times 4$  matrix from 0–15. Then , extract:

- the first row
- the last column
- a  $2 \times 2$  subarray from the center

5 . Add a 1D array [ 1 , 2 , 3 ] to each row of a  $3 \times 3$  matrix.

6 . Given two arrays A and B, compute:

- $(A + B) / 2$
- $A^{**2} + B^{**2}$