**NumPy Basic Tasks For Practice**

1. How do you create a 1D array of integers from 0 to 9 using NumPy?
2. How do you create a 3x3 matrix filled with zeros?
3. How can you generate an array of 10 random numbers between 0 and 1?
4. How can you reshape a 1D array of 12 elements into a 3x4 2D array?
5. How do you extract the third column from the following 2D array?

arr = np.array([[1, 2, 3], [4, 5, 6], [7, 8, 9]])

1. What is the difference between .shape and .size in NumPy?
2. Write a program to find the minimum, maximum, and mean of the array

arr = np.array([4, 7, 1, 8, 3, 9])

1. How can you add 5 to every element of a NumPy array?
2. How do you compute their element-wise sum and dot product?

a = np.array([1, 2, 3])

b = np.array([4, 5, 6])

1. How can you replace all negative values in an array with 0?
2. How can you find the indices of all even numbers in the following array?

arr = np.array([10, 15, 20, 25, 30])

1. Write a program to concatenate two 2D arrays along the rows.
2. How do you generate a 4x4 matrix of random integers between 1 and 100, and find its transpose?
3. Given a 3x3 array, write a NumPy program to normalize its values so that they range between 0 and 1.
4. Write a program to filter the values in an array based on a condition (e.g., values greater than 5).