

# Day 6

## DIY

### Q1. Problem Statement: Understanding NumPy Arrays

Write a Python program that prints odd numbers from 1 to 30 using the NumPy array. Also, print the data type of output.

#### Input Format:

You do not need to read any input in this problem.

#### Sample Output:

```
[ 1  3  5  7  9 11 13 15 17 19 21 23 25 27 29]
<class 'numpy.ndarray'>
```

### Q2. Problem Statement: Size Comparison

Write a Python program to declare a list and NumPy arrays(1-D, 2-D, and 3-D) and compare the size of the list and the arrays. Also, compare the size of each element in the list and the arrays (in terms of memory occupancy).

#### Input Format:

You do not need to read any input in this problem.

**Sample Output:**

```
Size of each element of list in bytes: 48  
Size of the whole list in bytes: 480  
Size of each element of the array in bytes: 8  
Size of the whole array in bytes: 80  
Size of each element of the array in bytes: 8  
Size of the whole array in bytes: 80  
Size of each element of the array in bytes: 8  
Size of the whole array in bytes: 80
```

