Day 7

DIY

Q1. Problem Statement: Understanding Array Functions

Write a Python program that takes the speeds of any vehicle to store it in a NumPy array and calculates the average speed.

Note: Use NumPy functions to get the desired output.

Input Format:

```
What number of speeds you want to enter?5
Enter the speeds in Km/hr: 92
Enter the speeds in Km/hr: 76
Enter the speeds in Km/hr: 83
Enter the speeds in Km/hr: 78
Enter the speeds in Km/hr: 84
```

Sample Output:

```
The Average speed is: 82.0 Km/hr
```

Q2. Problem Statement: Array Indexing/Slicing

Write a Python program to generate a 3-D array with integers of your choice, perform indexing, and print the first two rows and last two columns of the array.

Note: Use NumPy arange() function to generate a random array.

Input Format:

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

Sample Output:

```
The array is:
[[ 0  1  2  3]
 [ 4  5  6  7]
 [ 8  9 10 11]
 [12 13 14 15]
 [16 17 18 19]]
The first two rows are:
[[0 1 2 3]
 [4 5 6 7]]
The last two coloumns are:
[[ 2  3]
 [ 6  7]
 [10 11]
 [14 15]
 [18 19]]
```