Assignment 2 - Numpy

## Create the first numpy array of 1-D with values (1,2,3,0). Create a second numpy array of 1-D with values (4,1,0,6). Perform following simple arithmetic operations on these two numpy arrays:​

* Addition
* Subtraction​
* Multiplication​
* Division​

## Create the first numpy array of random integers between 1-100 of 5 elements in 1-D. Create second numpy array of 2-D for the same range of integers of shape 4\*5. Now perform following simple arithmetic operations on these two numpy arrays:​

* Addition
* Subtraction​

1. Create a 2-D numpy array of random integers between 1 to 100 with shape 5\*4. Now perform following operations:

* Print only the even numbers from this array
* Print only the odd numbers from this array
* Print row wise sum of all elements
* Print column wise sum of all elements

1. Create a 2-D numpy array of random integers between 1 to 100 with shape 5\*4. Now perform following operations:

* Swap first row with third row
* Swap second column with fourth column.
* Replace the values less than 50 with zero.
* Convert this 2D array into 1-D array

1. Explain the concept of stacking in numpy with examples. How is it different from concatenation. Give any 3 differences between them.