Lab Assignement N°5

- I. Write a Script (M-file)
 - 1) where you create a vector with random data and find the average and the standard deviation

		$\sum_{i=N}^{-1} i$	si N < 0
2)	that calculates $f(N)$ as follows: (N integer) -	{ 0	si N = 0
		$\left(\sum_{i=1}^{N} i + N^2\right)$	si N > 0

- 3) that reads a vector and subdivides it into two vectors: the first containing positive or null values, the second containing negative values.
- 4) that reads a vector and checks if it is sorted in ascending order.
- 5) that reads a matrix and calculates for each row, the number of elements that do not appear on the next row (the result in the form of a table)
- 6) that create a matrix for values of the function $f(x,y)=x^2 \sin y$, defined for $x \in [0 \ 10]$ and $y \in [0 \ 20]$,
- II. Make the necessary transformations to write functions from these scripts