TD 1

Exercise 1:

List the input/output elements for the following problems:

1- Displaying the average of a module.
2- Displaying the square of a number.
3- Swapping two numbers.
4- Calculating the area of a rectangle.
5- Calculating the area of a circle.

Exercise 2:

What are the correct names of the following variables, justify your answer:

Variable Name	Correct or Not	Justification
x		
X2		
2x		
X2y		
-x		
_x		
x-y		
begin		
xbegin		
Moy*enne		
if		
then		
integer		

Exercise 3:

What are the variables to declare, along with their types, for the following problems:

1- Average calculation of two modules with coefficients.
2- Sum of the number of students from different computer science classes.
3- Conversion between units of distance measurement (from cm to inch).
4- Identification of individuals (name, first name, date of birth, marital status, phone number,..).
5- Identification of vehicles.

Exercise 4:

Write algorithms to solve the following problems:

1- Swapping the values of two integer variables.
2- Calculating the average of two modules with coefficients.
3- Currency conversion (Algerian dinars to dollars)
4- Conversion of time into hours, minutes, and seconds. (Example: 1h15min13sec = 4513 sec; 75,22 min ; 1,253 h).