# **Tutorial series N°2**

## Exercise 1 :

- 1. Write a procedure that takes an integer **n** as a parameter and creates a file named "Numbers.txt" in the directory "C:/" and records in this file the integers from 1 to **n**, each number being placed on a separate line.
- 2. Write a function that takes as a parameter the path of a text file, reads its contents composed of integers, calculates their sum, and returns the result.

## Exercise 2 :

Write a function that takes as input the path to a text file containing lines of text and returns the total number of words in it. A word is defined as a sequence of characters separated by spaces.

## Exercise 3 :

Write a procedure that copies the content of a source text file to a destination file. The names of the source and destination files should be taken as input.

### Exercise 4 :

Write a procedure that takes as input the path to a text file containing names and marks of students (one name per line followed by the mark, separated by a comma). The function should return the average mark and the name of the student with the highest mark.

### Exercise 5 :

Write a procedure that merges the content of two text files into a single file. The names of the source files and the destination file should be taken as input.

### Exercise 6 :

We want to establish an algorithm for managing personnel in a company. Each employee of the company is characterized by his: ID number, last name, first name, position, and salary in Algerian dinars.

- 1. Declare the type **Employee** to represent the information of an employee.
- 2. Declare the type **TabEmployees** to represent a set of 100 employees.
- 3. Write a procedure that takes an array of employees and a file path as input, then stores this information in the file.
- 4. Write a procedure that, from a file containing the information of all employees, displays the list of employees whose salary is between two values **A** and **B** passed as parameters to the procedure.
- 5. Write the main algorithm to input the information of 100 employees and store them in an array. Then the algorithm should save this information in the file "E:/Employees.txt". Finally, the algorithm should display the list of employees whose salary is between 25000 and 40000 DA.