REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
الجمهورية الجزائرية الديمقراطية الشعبية

MINISTERE DE L'ENSEIGNEMENT SUPERIEUR
ET DE LA RECHERCHE SCIENTIFIQUE

ESSA

وزارة التعليم العالي والبحث العلمي

ECOLE SUPERIEURE EN SCIENCES APPLIQUEES
-T L E M C E N-

المدرسة العليا في العلوم التطبيقية
-تلمسان-

Practical Work Number 1

C Programming -Arrays-

Objective

A first-year students aim to analyze their grades from the first semester. To assist them, write a C program that performs statistical calculations using arrays.

Tasks Assigned

1. Read and record the grades in an array named 't' using:

```
for (i=0;i<N;i++)
{scanf("%f",&t [i]);}
```

2. Display the grades using

```
for (i=0;i<N;i++)
{printf("%f", t[i]);}
```

With N=Size of the array

3. Improve the reading and displaying of the array
4. Display the maximum grade
5. Display the minimum grade

The coefficients for each subject are given: Analysis: 6, Physics: 5, Chemistry: 5, Algebra: 3, Probability: 3, Computer Science: 3, Drawing: 1, Humanities: 1, Economics: 1, English: 1, French: 1.

6. Initialize an array of coefficients named 'cof.' Calculate the average
7. Display the grades above the average
8. Sort the grades from smallest to largest