BOUMERDES UNIVERSITY
Institute of Electrical and Electronics Engineering
I.G.E.E (ex-INELEC)

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Laboratory Experiment 3:
C Programming--EE122 (Arrays (2D)

Exercise1:

Write a program that reads for *N* students, *M* tests (*M* Modules) scores in the range 0 through 20 and print the following statistics:
- The average (mean) score of each student.
- The student with the highest average score.
- The student with the lowest average score.
- The number of students whose average score equals or exceeds the average.

Exercise2:

A patient was hospitalized for **5 days** in some hospital. His temperature was taken **5 times every day**. Write a program that reads the temperatures of this patient during the five days he spent in the hospital **into two-dimensional array**. The program should **computes and displays** the **maximum temperature** and **average temperature** recorded during the patient stays in the hospital.

Exercise3:

A car selling company sells three car models in each of its four shops. The current car stock for the company is:

	SHOP1	SHOP2	SHOP3	SHOP4
MODEL1	5	7	3	0
MODEL2	2	6	4	8
MODEL3	3	12	10	5

Write a program which reads the stock data into a two-dimensional array. The program then prints tables of the total number of cars in each shop.

The output should be in the form:
```
   SHOP#        NUMBER OF CARS
     1               10
     2               25
     3               17
     4               13
```