

TP N°02

Conditional treatments

Exercise 01

Write a program that asks the user for two numbers and then informs him whether their product is negative or positive.

Caution: do not calculate the product of the two numbers.

Exercise 02

A reprography store charges 5 DA for the first ten photocopies, 4 DA for the next twenty and 3 DA beyond that.

Write a program that asks the user for the number of photocopies made and displays the total price of the corresponding invoice.

Exercise 03

1. Write a program which, after requesting a day, month and year number from the user, returns whether or not it is a valid date.

2. Improve your program to handle the case where the year is a leap year. NB: leap years are those: either divisible by 4, but not divisible by 100; or divisible by 400.

Exercise 04

Write a program to display the day corresponding to a number from 1 to 7 entered on the keyboard by the user. Solve this problem using two methods: (nested **if** and **Switch**).

Exercise 05

Write a program to simulate a calculator. Two real numbers are entered on the keyboard. According to a choice made from a menu displayed on the screen, we wish to calculate the sum or the product or the average or the minimum or the maximum of these two numbers. The menu should appear as follows:

```
***** MENU *****
1: -----> Somme -----
2: -----> Product -----
3: -----> Average -----
4: -----> Minimum -----
5: -----> Maximum -----
-----
```

What's your choice?