

Solutions to Exercise Series N°: 01

Exercise 1 :

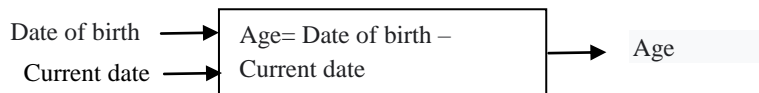
Answer true or false:

1. Microsoft is a computer manufacturing company. **(false)** *production of applications*
2. Facebook is made by a programming language. **(true)**
3. Data and programs are stored in files. **(true)**
4. We can design two different algorithms for the same problem. **(true)**
5. I am a good programmer; so I can design an algorithm for any mathematical problem. **(false)** *you need to know the solution method of the problem; there are problems that have no solutions ; the solution method is not known until now*
6. Hard is more important than soft. **(false)** *They are complementary*
7. If the algorithm is wrong, the result is wrong. **(false)** *the result is random*
8. Algorithm testing is a very important phase in creating programs. **(true)**
9. Python is a European social network. **(false)** *programming language*
10. The pseudo-code may vary slightly from one book (or teacher) to another. **(true)**
11. There are algorithms that never end! **(true)**
12. An algorithm can be written in Arabic. **(true)**

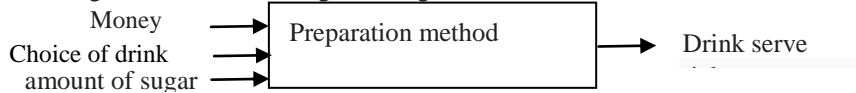
Exercise 2 :

Determine the inputs and outputs of the following algorithms by means of a diagram:

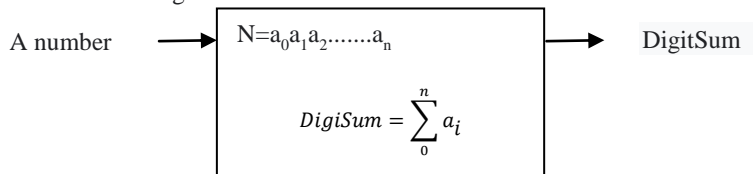
- Calculating a person's age.



- Getting coffee from a beverage vending machine.



- the sum of the digits of a number

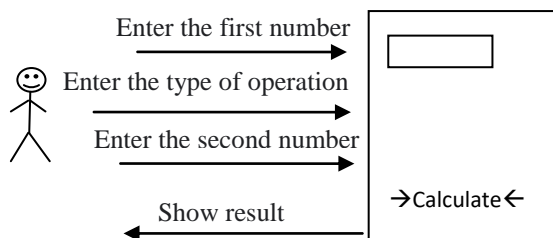


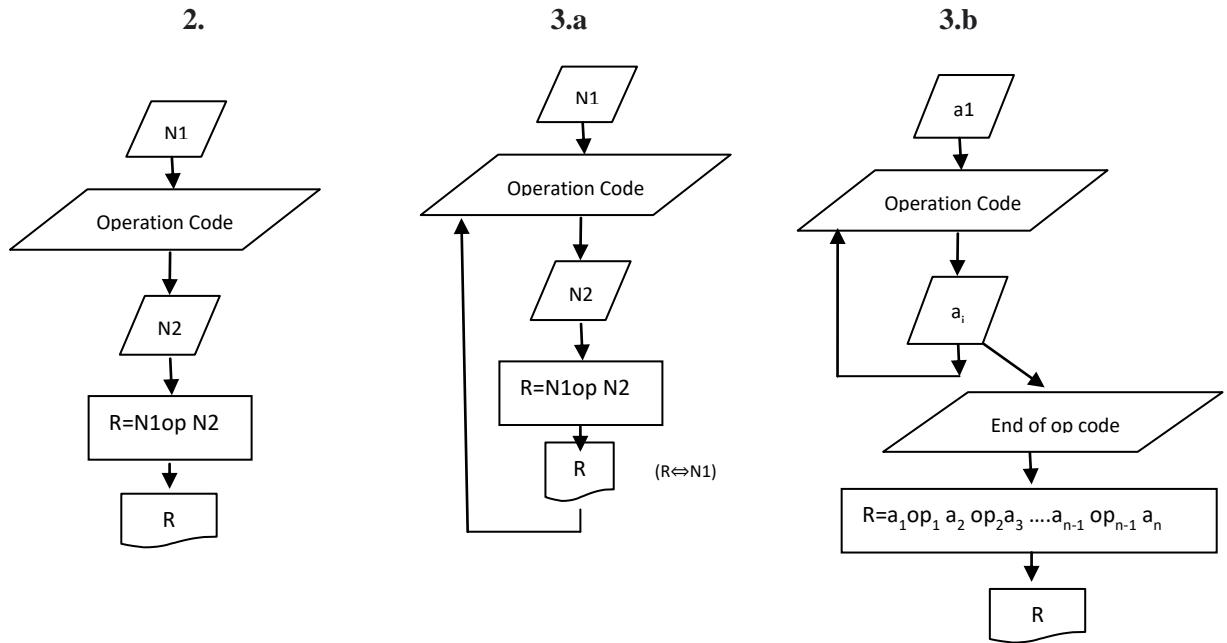
- the binary representation of a decimal



Exercise 3:

1.





Practical Work (TP)

The 1st practical work is a simple task with the objective of knowing the programming environment:

- Discover the interface
- Enter a program
- Save a program
- Compile a program
- Detect errors
- Distinguish between syntactic and semantic errors
- Run a program
- Master some text processing tools (copy & paste)