**Exercises**

Instructions

* write your algorithm on paper
* detail each and every step
* indicates the types of used variables

**I - cinema tariffs**

In a cinema the full tariff is 10 €, the reduced one is 8 €. Write an algorithm which given a **boolean** indicating if the person can have a reduced tariff prints the **price to pay**.

START

ECRIRE ‘ ageDePersonne’ String var

Var a = 10 num var

Var b = 8

Var age = 18

Var ageDePersonne = x

IF age <= 18 == TRUE

THEN print B

ELSE print A

END

**II - maximum**

Write an algorithm which given 3 numbers finds the **maximum**.

START

Var tab = [ number1, number2, number 3 ]

Var i = 2

END

(Print i => puisqu’un tableau rangé est nécessairement en ordre croissant, le chiffre maximum se trouvera à l’index 2 )

**III - identical dice**

Write an algorithm which throws 3 dices and finds out the **number of identical value**, three, two or none.

START

Var a = ‘deNumeroUn’

Var b = ‘deNumeroDeux’

Var c = ‘deNumeroTrois’

Var d= ‘number of identical value’

Throw a, b, c,

READ a, b ,c

If a = b

Then print d

Elseif a=c

Then print d

Else print « ‘throw dices again’ »

END

**IV - day’s number**

Write an algorithm which given the **number of a day** returns its **name**.

START

Var a = number of days

Var b= name

IF a == TRUE

Return name

END

**V - print shop**

A print shop charges 0.12 € the ten first copy, 0.11 € the next 20 and 0.10 € from there. Write an algorithm which given a **number of copies** and calculates the **price**.

START

Var a = number of copies

Var b = price

TANTQUE ( while ) a < 10

b = 0.12

FINTANTQUE ( je connais pas le terme en anglais )

If a > 10 AND a < 30

Then b = 0.11

Else IF a > 30

Then b = 0.10

END