

PW 5 : algorithm 1

Exercise 1: We have three variables A, B and C. Write an algorithm transferring the value of A to B, the value of B to C and the value of C to A.

Exercise 2: Write an algorithm which allows you to enter 2 integer numbers via keyboard and calculate their **sums**, **subtraction** , **product** and **division** then output the results via screen.

Exercise 3: Write an algorithm that allows you to calculate the sum and the average of three given real numbers.

Exercise 4: Write an algorithm that allows you to calculate the **total** from the **quantity** and **price**. Repeat the previous exercise to calculate the total for 4 different products.

Exercise 5: Write an algorithm that allows you to calculate the **average** of three modules from the grades and coefficients of these modules.

Exercise 6: Write an algorithm called CAPACITY, which converts a given number in **bits** into Bytes, Kilobytes, Megabytes and Gigabytes.

Exercise 7: Write an algorithm that calculates and displays the distance between two points.

Exercise 8 : Write a program that reads a number from the keyboard, responds 1 if the number is **odd** and 0 if the number is **even**.

Exercise 9 : Write an algorithm (program) that asks the user for a number, and then informs them if this number is positive or negative (we leave aside the case where the number is zero).

Exercise 10: Write an algorithm that calculates the solutions of a quadratic equation, $aX^2 + bX + c = 0$, where a , b and c are three integers entered from the keyboard .