

PW 04 : functions and subroutines

Exercise 1 :

Write a function **surface** witch return the surface of a rectangle.

In the main program use the **surface** function to calculate sum of of 3 rectangles surface.

Exercise 2:

Write a sub-program **Give-Posit-Number** to force the user to enter a positive integer.

Write a function **fact** witch calculate the factorial of a positive integer number.

Write a main program program witch calculates: $f = x! + y! - z!$

Exercise 3:

Write a **swap** subroutine allowing you to swap the values of the two variables given as parameters.

Write a program that reverses the elements of an array T of 10 integer elements using the subroutine **swap**

Exercise 4:

Write a subroutine **filling**(t,n) allowing the user to fill the elements of an array t of n integers elements

Write a subroutine **display**(t,n) allowing you to display the elements of an array t of n integers elements

Write a program which declares 3 arrays T1, T2 and T3 of 10 integer elements then calculates the product $T3 = T1 * T2$ ($i=1,10$). and display T1, T2 and T3.

using the **filling** and **display** subroutines.