

VBA for Excel

Exercises sheet N°5 – Functions and mixture macros

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1. Write a macro that calls a function which: (i) asks the user to enter two integers and (ii) returns the sum of these integers. The result is displayed by the macro.
2. Write a macro that calls a function which: (i) asks the user to enter two integers and (ii) displays the sum of these integers.
3. Write the macro that calls a function named `largest ()` which returns the largest element of an array. The function takes as entry the following array: T (1, 5, 10, 15, 20).
4. In a main macro, create an array of integers “T” with the values: 0, 5, 10, 15, 20, 25, 30, 35, 40. The macro will call a function “my_sum” which receives the array as an argument and returns the sum of its elements.
5. Enter the following values in an Excel sheet (starting from cell A2): 0, 5, 10, 15, 20, 25, 30, 35, 40. Create a macro that calls a user-created function which calculates and returns the sum of these values. The main macro will display this result.
6. Enter the following student’s names in the column A of an excel sheet: “Luis”, “Paul”, “Kelly”, “Claire”. Then enter in column B the student’s marks (respectively) 10, 16, 13, 14. Write a macro that calls a function: that copies the data from the excel sheet to vba. The main macro displays the data as follows “student Xxx has got yy in the exam”.
7. Download the excel workbook “students”. In this workbook, create a macro that copies the students’ names, gender and marks from the sheets “Students Info” and “Students Marks” into a new sheet called “Students Results”.
 - In the sheet “Students Results”, add a column “mention” that contains the mention “Rattrapage” for students’ marks going from 0 to 10, “Passable” for marks going from 10 to 12, “Assez-bien” for marks going from 12 to 14, “Bien” for marks going from 14 to 16, “Très-bien” for marks going from 16 to 18, and “Excellent” for marks going from 18 to 20.
 - In another column called “special case” add the mention “special case” if the student’s mention is “Rattrapage” and his age is above 30.
 - Using user created functions, display in separate cells the maximum, minimum and average marks of the students (you can add other statistics about the students if you want).