

VBA for Excel

Exercises sheet N°4 – Arrays

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1. Create an array named "my_tab" that can contain 5 characters. The cells of this array must contain, respectively, the first 5 letters of the alphabet. Use a *For* loop to display the 5 five elements of this array in a message box.
2. Create an array that can contain 5 integers. Using a loop, the user will have to enter five values into this array. Another loop will display the five values entered.
3. Create an array that can contain 5 integers. Then using a loop, the user will have to enter the five values. Then another loop will display the five values entered in reverse order: the fifth value is displayed first, then the fourth etc.
4. Create an array that can contain 5 integers. Then using a loop, the user will have to enter the five values. The macro will display the sum of the elements of the array.
5. Create an array that can contain 6 integers. Then using a loop, the user will have to enter the six values. The macro will display the largest element of the array.
6. Create an array that can contain 5 integers. Then using a loop, the user will have to enter the five values. The macro will display the smallest element of the array.
7. Create an array that can contain 6 integers. Then using a loop, the user will have to enter the six values. The macro will display the biggest element of the array but also the number of the cell in which it is located.
8. (*dynamic declaration of arrays*) Create a macro that asks the user to enter the size of an array which will be declared dynamically. We will then enter the data into the array and display them.
9. (*two dimensions array*) Create an array that contains the following students' names in the first column "Luis", "Paul", "Kelly", "Claire". The second column must contain the student's marks (respectively) 10, 16, 13, 14. Display the elements of this array using loops.
10. Modify the previous macro so that it displays first names of the students followed by their mark. It must display "Xxx has got yy in the exam" (where Xxx is the student's name and yy his mark).
11. Modify the previous macro so it displays the name of the student that has got the highest mark. (Change the student's marks to verify that the result is correct).