

### Practicum No.2

## Course JavaScript Programming Language and jQuery

#### Module 2

# TOPIC: OBJECT. ARRAYS. ARRAY OBJECT. STRINGS. STRING OBJECT. DATE OBJECT. MATH OBJECT. INTRODUCTION TO OOP

#### Task 1

Create an array of 10 random numbers and write several functions to work with it.

- 1. The function takes an array and displays it on the screen.
- 2. The function takes an array and outputs only even elements.
- 3. The function takes an array and returns the sum of all elements of the array.
- 4. The function takes an array and returns its maximum element.
- 5. The function of adding a new element to the array by the specified index.
- 6. The function of removing an element from an array by the specified index.

#### Task 2

Create another array of 5 random numbers and write the following functions.

1. The function takes 2 arrays and returns a new array, in which all the elements of two arrays are collected without repetitions.

# STEP

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- 2. The function takes 2 arrays and returns a new array in which common elements are collected (that is, elements that occur in both the first and second arrays) without repetition.
- 3. The function takes 2 arrays and returns a new array, in which all the elements from the first array are collected which are not in the second array.

#### Task 3

Create an array of fruits and sort it alphabetically. Write the following functions.

- 1. Displaying with document.write() as a list (using the ul and li tags).
- 2. Search for fruit in the array. The function takes fruit name and returns the index of the element found or -1 if it is not found. The search must be non-case sensitive.