



JavaScript Sheet 3

Java Script Arrays Methods

Objectives: On successful completion of this sheet, students should be able to

1. Deal with arrays methods in JavaScript.
2. Deal with objects in JavaScript.

Q1) Write a JavaScript program which accept a number as input and insert dashes (-) between each two consecutive even numbers. For example: for the input 025468 ➡ Output: 0-254-6-8

Q2) Write a JavaScript function called “secondIndexOf ()” that returns the index of the second occurrence of an item inside an array, or -1 if it is not exist.

Q3) Write a JavaScript program to find the most frequent item of an array with the number of occurrences.

For Example: var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3]; ➡ Output : a (5 times)

Q4) Write a JavaScript program to remove duplicate items from an array.

Q5) Write a JavaScript program to compute the union of two arrays.

For Example: union([1, 2, 3], [100, 2, 1, 10]) ➡ Output: [1, 2, 3, 100, 10]

Q6) Write a JavaScript function to sort the following array of objects by title value.

For Example:

```
var library = [  
  { author: 'Bill Gates', title: 'The Road Ahead', libraryID: 1254},  
  { author: 'Steve Jobs', title: 'Walter Isaacson', libraryID: 4264},  
  { author: 'Suzanne Collins', title: 'Mockingjay', libraryID: 3245} ];
```

➡ Output:

```
[[object Object] {  
  author: "Suzanne Collins",  
  libraryID: 3245,  
  title:"Mockingjay"  
}, [object Object] {  
  author: "Bill Gates",  
  libraryID: 1254,  
  title: "The Road Ahead"  
}, [object Object] {  
  author: "Steve Jobs",  
  libraryID: 4264,  
  title: "Walter Isaacson"
```