Computer Science Division
Department of Mathematics
Faculty of Science

Level 2- Spring Semester
Course: COMP 206
Date: March 4th, 2018

Sheet 4

Java Script Arrays Methods & Objects

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 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.

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:The Final Book of The Hunger Games"
}, [object Object] {
  author: "Bill Gates",
  libraryID: 1254,
  title: "The Road Ahead"
}, [object Object] {
  author: "Steve Jobs",
  libraryID: 4264,
  title: "Walter Isaacson"
}]
```