



# ***JavaScript Essentials***

## **Assignments**

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**RECORD OF CHANGES**

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	25/Jun/2018	Create a new Lab	Create new	DieuNT1	VinhNV
2	01/May/2019	Update Fsoft Template	Update	DieuNT1	VinhNV

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CODE:	JS-E.M.A501
TYPE:	Medium
LOC:	N/A
DURATION:	60 MINUTES

## Unit 5 – Arrays

### Objectives:

- ✓ Understand the fundamental concepts of JavaScript Arrays

### Project Structure

- A project called **JS-E.M.A501** (this will be your root folder) is provided to you
- Put your work for each problem in corresponding folder inside root folder

### Problem 1:

Let's start off with some basic array practice. In this task we'd like you to create an array of three items, stored inside a variable called **myArray**. The items can be anything you want — how about your favorite foods or bands?

Next, modify the first two items in the array using simple bracket notation and assignment. Then add a new item to the beginning of the array.

Try updating the code below to recreate the Expected output:

```
1.    // Add your code here
2.
3.    // Don't edit the code below here!
4.
5.    const section = document.querySelector('section');
6.
7.    let para1 = document.createElement('p');
8.    para1.textContent = `Array: ${myArray}`;
9.
10.   section.appendChild(para1);
```

Expected output:

Array: crocodiles,horses,pigs,chickens

### Problem 2:

Now let's move on to another task. Here you are provided with a string to work with. We'd like you to:

1. Convert the string into an array, removing the + characters in the process. Save the result in a variable called **myArray**.
2. Store the length of the array in a variable called **arrayLength**.
3. Store the last item in the array in a variable called **lastItem**.

Try updating the code below to recreate the Expected output:

```
1.    // Add your code here
2.
3.    let myString = 'Ryu+Ken+Chun-Li+Cammy+Guile+Sakura+Sagat+Juri';
```

```
4.
5.    // Don't edit the code below here!
6.
7.    const section = document.querySelector('section');
8.
9.    let para1 = document.createElement('p');
10.   para1.textContent = `Array: ${myArray}`;
11.
12.   let para2 = document.createElement('p');
13.   para2.textContent = `The length of the array is ${arrayLength}.`;
14.
15.   let para3 = document.createElement('p');
16.   para3.textContent = `The last item in the array is "${lastItem}".`;
17.
18.   section.appendChild(para1);
19.   section.appendChild(para2);
20.   section.appendChild(para3);
```

Expected output:

```
Array: Ryu,Ken,Chun-Li,Cammy,Guile,Sakura,Sagat,Juri
The length of the array is 8.
The last item in the array is "Juri".
```

### Problem 3:

For this final array task, we provide you with a starting array, and you will work in somewhat the opposite direction. You need to:

1. Remove the last item in the array.
2. Add two new names to the end of the array.
3. Go over each item in the array and add its index number after the name inside parentheses, for example Ryu (0). Note that we don't teach how to do this in the Arrays article, so you'll have to do some research.
4. Finally, join the array items together in a single string, with a separator of " - ".

Try updating the code below to recreate the Expected output:

```
1.    let myArray = [
2.        'Ryu',
3.        'Ken',
4.        'Chun-Li',
5.        'Cammy',
6.        'Guile',
7.        'Sakura',
8.        'Sagat',
9.        'Juri',
10.   ];
11.
12.   // Add your code here
13.
14.   // Don't edit the code below here!
15.
16.   const section = document.querySelector('section');
17.
18.   let para1 = document.createElement('p');
19.   para1.textContent = myString;
20.
21.   section.appendChild(para1);
```

Expected output:

Ryu (0) - Ken (1) - Chun-Li (2) - Cammy (3) - Guile (4) - Sakura (5) - Sagat (6) - Zangief (7) - Ibuki (8)

-- THE END --