



# ***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.A801
TYPE:	Medium
LOC:	N/A
DURATION:	60 MINUTES

## Unit 8 – Loops

### Objectives:

- ✓ Able to looping code using JavaScript feature such as for, while, do...while

### Project Structure

- A project called **JS-E.M.A801** (this will be your root folder) is provided to you
- Put your work for each problem in corresponding folder inside root folder

### Problem 1:

In our first looping task we want you start by creating a simple loop that goes through all the items in the provided myArray and prints them out on the screen inside list items (i.e., `<li>` elements), which are appended to the provided list.

Try updating the code in corresponding folder to recreate the expected output below:

- tomatoes
- chick peas
- onions
- rice
- black beans

### Problem 2:

In this next task, we want you to write a simple program that, given a name, searches an array of objects containing names and emails (phonebook) and, if it finds the name, outputs the name and phone number into the paragraph (para) and then exits the loop before it has run its course.

You are given three variables to begin with:

- `i` — starts off with a value of 0; intended to be used as an iterator.
- `name` — contains a name to search for
- `para` — contains a reference to a paragraph, which will be used to report the results.

You must use a type of loop that you've not used in the previous task.

Try updating the code in corresponding folder to recreate the expected output below:

Mustafa's number is 6888.

**Problem 3:**

In this final task, you are provided with the following:

- `i` — starts off with a value of 500; intended to be used as an iterator.
- `para` — contains a reference to a paragraph, which will be used to report the results.
- `isPrime()` — a function that, when passed a number, returns true if the number is a prime number, and false if not.

You need to use a loop to go through the numbers 1 to 500, backwards, and run the provided `isPrime()` function on them. For each number that isn't a prime number, skip to the next loop iteration. For each one that is a prime number, add it to the paragraph's `textContent` along with some kind of separator.

You must use a type of loop that you've not used in the previous two tasks.

Try updating the code in corresponding folder to recreate the expected output below:

```
499 491 487 479 467 463 461 457 449 443 439 433 431 421 419 409 401 397 389 383 379
373 367 359 353 349 347 337 331 317 313 311 307 293 283 281 277 271 269 263 257 251
241 239 233 229 227 223 211 199 197 193 191 181 179 173 167 163 157 151 149 139 137
131 127 113 109 107 103 101 97 89 83 79 73 71 67 61 59 53 47 43 41 37 31 29 23 19 17 13
11 7 5 3 2 1 0
```

-- THE END --