
JavaScript Arrays and Functions

JavaScript Arrays

An array is a special variable, which can hold more than one value at a time.

```
var array_name = [value1, value2, value3]
```

Example: `var letters = ["A", "B", "C", "D"];`

Insert new elements

```
array_name [index number] = new value
```

Example: `letters [4] = "E";`

Display element

```
document.write(array_name [index number]);
```

JavaScript Array Methods

length property returns the **length (size)** of an array

Example: `var letters = ["A", "B", "C", "D"];`

```
var number = letters.length;
```

Output → 4

pop() method **removes** the **last element** from an array

Example: `var letters = ["A", "B", "C", "D"];`

```
letters.pop();
```

Output → letters = ["A", "B", "C"];

push() method **adds** a **new element** to the **end** of an array

Example: `var letters = ["A", "B", "C", "D"];`

`letters.push("E");`

Output → `letters = ["A", "B", "C", "D", "E"];`

shift() method **removes** the first element of an array

Example: `var letters = ["A", "B", "C", "D"];`

`letters.shift();`

Output → `letters = ["B", "C", "D"];`

unshift() method **adds** a **new element** to the **beginning** of an array

Example: `var letters = ["A", "B", "C", "D"];`

`letters.unshift("E");`

Output → `letters = ["E", "A", "B", "C", "D"];`

JavaScript Function

A function is a group of reusable code which can be called anywhere in your program.

Function Definition

function function_name (parameter-list)

```
{  
    statement(s)  
}
```

Calling a Function

function_name (parameter-list)

Exercise 1

Write a JavaScript code segment to create the given array below with the relevant numbers.

numbers = [1, 12, 4, 7, 8, 3, 5, 11, 9, 10]

Then find out the **even** numbers from that array and include those in another array called **evenNumber**. The new array elements should be displayed using an alert box at the end.

Exercise 2

- a) You need to create the below given HTML form and complete the following steps using CSS and JavaScript.

Check Password
Password:

Re-enter Password :

- b) Write a CSS code to change the background colour of the button into yellow with the text colour red using inline style method.
- c) Create a JavaScript function called as **matchPassword()** to match the **password field** with the **Re-enter password field** and Call the function on the button (“**Submit**”) click event.