

BSc (Hons) in Information Technology Year 1

Internet and Web Technologies - IT1100

Workshop 05

2024

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 \rightarrow 4

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

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

letters.pop();

Output \rightarrow letters = ["A", "B", "C"];

```
push() method adds a new element to the end 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)

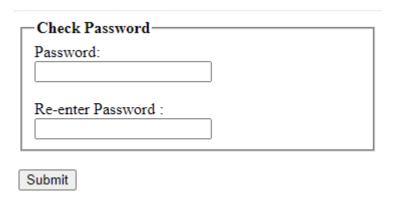
Exercise 1

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

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.



- 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.