DAY-3

1. For the given JSON iterate over all for loops (for, for in, for of, forEach) ?

**for**

Creates a loop that consists of three optional expressions, enclosed in parentheses and separated by semicolons, followed by a statement executed in the loop.

**Ex:**

let str = '';

for (let i = 0; i < 9; i++) {

str = str + i;

}

console.log(str);

// expected output: "012345678"

**for in**

Iterates over the enumerable properties of an object, in arbitrary order. For each distinct property, statements can be executed.

**EX:**

const object = { a: 1, b: 2, c: 3 };

for (const property in object) {

console.log(`${property}: ${object[property]}`);

}

// expected output:

// "a: 1"

// "b: 2"

// "c: 3"

**for of**

Iterates over iterable objects (including arrays, array-like objects, iterators and generators), invoking a custom iteration hook with statements to be executed for the value of each distinct property.

**EX:**

const array1 = ['a', 'b', 'c'];

for (const element of array1) {

console.log(element);

}

// expected output: "a"

// expected output: "b"

// expected output: "c"

**forEach**

The forEach method passes a callback function for each element of an array together with the following parameters:

Current Value (required) - The value of the current array element

Index (optional) - The current element's index number

Array (optional) - The array object to which the current element belongs

**EX:**

const array1 = ['a', 'b', 'c'];

array1.forEach(element => console.log(element));

// expected output: "a"

// expected output: "b"

// expected output: "c"

1. Read about the difference between window, screen and document in JavaScript?

|  |  |
| --- | --- |
| **Document** | **Window** |
| It represents any HTML document or web page that is loaded in the browser. | It represents a browser window or frame that displays the contents of the webpage. |
| It is loaded inside the window. | It is the very first object that is loaded in the browser. |
| It is the object of window property. | It is the object of the browser. |
| All the tags, elements with attributes in HTML are part of the document. | Global objects, functions, and variables of JavaScript are members of the window object. |
| We can access the document from a window using the window. document | We can access the window from the window only. i.e. window. |
| The document is part of BOM (browser object model) and dom (Document object model) | The window is part of BOM, not DOM. |