Training Day19 Report

(3 July 2024)

JavaScript Array Methods

JavaScript array methods are built-in functions that allow efficient manipulation and traversal of arrays. They provide essential functionalities like adding, removing, and transforming elements, as well as searching, sorting, and iterating through array elements, enhancing code readability and productivity.

JavaScript Array length

The length property returns the length of the given array.
Syntax:

```
Array.length
```

Example

Getting the length of the given array.
JavaScript

```javascript
// Original Array
let courses = ["HTML", "CSS", "JavaScript", "React"];

// Accessing the Array Length
console.log(courses.length);
```

Output

```
4
```

JavaScript Array toString() Method

The toString() method converts the given value into the string.
Syntax

```
arr.toString()
```

Example

Converting the given array into the strings.
JavaScript

```javascript
// Original Array
let courses = ["HTML", "CSS", "JavaScript", "React"];

// Converting array ot String
let str = courses.toString();

console.log(str);
```

Output

```
HTML,CSS,JavaScript,React
```

Javascript Array.push() Method

The [push() method](#) is used to add an element at the end of an Array. As arrays in JavaScript are mutable objects, we can easily add or remove elements from the Array. And it dynamically changes as we modify the elements from the array.

Syntax

```
Array.push(item1, item2 …)
```

Example : Adding new elements such as some numbers and some string values to the end of the array using the **push()** method.

JavaScript

```javascript
// Declaring and initializing arrays
let numArr = [10, 20, 30, 40, 50];

// Adding elements at the end of an array
numArr.push(60);
numArr.push(70, 80, 90);
console.log(numArr);


let strArr = ["piyush", "gourav", "smruti", "ritu"];
strArr.push("sumit", "amit");

console.log(strArr);
```

Output

```
[
  10, 20, 30, 40, 50,
  60, 70, 80, 90
]
[ 'piyush', 'gourav', 'smruti', 'ritu', 'sumit', 'amit' ]
```

JavaScript Array.pop() Method

The [pop() method](#) is used to remove elements from the end of an array.

Syntax

```
Array.pop()
```

Example : Remove an element from the end of the array using the **pop()** method.

JavaScript

```javascript
// Declare and initialize array
let numArr = [20, 30, 40, 50];

// Removing elements from end
// of an array
numArr.pop();

console.log(numArr);



// Declare and initialize array
let strArr = ["amit", "sumit", "anil"];

// Removing elements from end
// of an array
strArr.pop();

console.log(strArr);
```

Output

```
[ 20, 30, 40 ]

[ 'amit', 'sumit' ]
```