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JAVASCRIPT ARRAY METHODS IN DETAIL



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→ What is an Array?

- An array is a special variable, which can hold more than one value.
- Index: The location of an item in an array.
- Array index starts from 0
- Array length count starts from 1

1. pop() method

- It removes the last element from an array.

```
1 let cities = ["Hyderabad", "Delhi", "Mumbai", "Goa"];  
2 cities.pop();  
3  
4 console.log(cities);  
5 // output ⇒ ['Hyderabad', 'Delhi', 'Mumbai']
```

2. push() method

- It adds a new element to an array (at the end).

```
1 let cities = ["Hyderabad", "Delhi", "Mumbai"];  
2 cities.push("Kolkata");  
3  
4 console.log(cities);  
5 // output ⇒ ['Hyderabad', 'Delhi', 'Mumbai', 'Kolkata']
```

3. shift() method

- It removes the first array element and "shifts" all other elements to a lower index..

```
1 let cities = ["Hyderabad", "Delhi", "Mumbai", "Kolkata"];  
2 cities.shift();  
3  
4 console.log(cities);  
5 // output ⇒ ['Delhi', 'Mumbai', 'Kolkata']
```

4. unshift() method

- It adds a new element to an array (at the beginning).

```
1 let cities = ["Delhi", "Mumbai", "Kolkata"];  
2 cities.unshift("Hyderabad");  
3  
4 console.log(cities);  
5 // output ⇒ ['Hyderabad', 'Delhi', 'Mumbai', 'Kolkata']
```

5. length method

- Display the length of an array

```
1 let cities = ["Hyderabad", "Delhi", "Mumbai", "Kolkata"];  
2  
3 console.log(cities.length);  
4 // output ⇒ 4
```


6. concat() method

- It creates a new array by merging (concatenating) existing arrays or by adding new elements to an existing array.



```
1 let cities = ["Hyderabad", "Delhi", "Mumbai"];  
2  
3 console.log(cities.concat("Kolkata"));  
4 // output ⇒ ['Hyderabad', 'Delhi', 'Mumbai', 'Kolkata']
```

7. slice() method

- It slices out a part of an array according to the given arguments.



```
1 let cities = ["Hyderabad", "Delhi", "Mumbai", "Kolkata"];  
2  
3 console.log(cities.slice(2));  
4 // output ⇒ ['Mumbai', 'Kolkata']
```

8. splice() method

- It is used to add new items to an array.
- The first parameter defines the position where new elements should be added.
- The second parameter defines how many elements should be removed.
- The third parameter defines the new elements to be added.

```
1 let cities = ["Hyderabad", "Delhi", "Mumbai", "Kolkata"];
2
3 console.log(cities.splice(1, 1, "Goa"));
4 // output ⇒ ['Delhi'](Returns deleted items)
5
6 console.log(cities);
7 // output ⇒ ['Hyderabad', 'Goa', 'Mumbai', 'Kolkata']
```

We'll discuss remaining methods
in next post

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