JavaScript Array Methods

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pop() method

This method removes the last element from an array and returns that element.

```
let cities = ["Delhi", "Lucknow", "Banglore",
                                "Mumbai"];
//remove the last element

let removedcity = cities.pop();

Console.log(cities)          //["Delhi", "Lucknow",
                              "Banglore"]
Console.log(removedCity)     // Mumbai
```

foreach() method

This method executes a provided function for each array element.

```
const words = ["HTML","CSS","Javascript"];

words.forEach(word => console.log(word));
  // HTML
  // CSS
  // JavaScript
```

reduce () method

This method executes a reducer function on each element of the array and returns a single output value.

```
const numbers = [20,10,18,12];

const sum = numbers.reduce((x,y) => x+y, 0);

console.log(sum);  // 60
```

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find() method

This method returns the value of the first array element that satisfies the provided test function.

```
const numbers = [7,14,8,128,56];

const found = numbers.find(element => element>10);

console.log(found);  // 14
```

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Sort() method

This method sorts the items of an array in a specific order. (ascending or descending)

```
let city =["Delhi", "Lucknow" ,"Patna","Banglore"];

//sort the city array in ascending order

let sortedArray = city.sort();

console.log(sortedArray);

//Output :['Banglore', 'Delhi', `Lucknow', 'Patna'];
```

push() Method

This method adds zero or more elements to the end of the array.

```
let city = ["Delhi" , "Lucknow" , "banglore"];

// add "London" to the array

city.push ("Mumbai");

console.log (city);

//Output :["Delhi","Lucknow" , "banglore" , "Mumbai"];
```

filter() method

This method returns a new array with all elements that pass the test defined by the given function.

```
const words = ['HTML' ,'CSS' ,'JavaScript' ,'Python'];

const longwords = words.filter (word => word.length
                                        > 4);
console.log(longwords) ;
                    // ["JavaScript" , "Python"]
```

map() method

This method creates a new array with the results of calling a function for every array element.

```
const numbers = [1, 2, 3, 4, 5];

const doubled = numbers.map (x => x * 2);

console.log(doubled);
                    // 2 4 6 8 10
```

findIndex() method

This method returns the index of the first array element that satisfies the provided test function or else returns. -1.

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```
const numbers = [6, 11, 9, 100, 46];

const indexFound = numbers.findIndex
                    (element => element > 15);

console.log(indexFound); //3
```

concat() method

This method returns a new array by merging two or more values/ arrays.

```
let primeNumbers = [2, 3, 5, 7]

let evenNumbers  = [2, 4, 6, 8]
                    //join two arrays

let joinedArrays = primeNumbers.concat
                    (evenNumbers);
```

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```
console.log(joinedArrays);

/* Output

[
    2, 3, 5, 7
    2, 4, 6, 8
]
```