

Arrays

```
let names = ['Hitesh', 'Anurag', 'Surya', 'Anirudh'];
console.log(names[2]);
console.log(names[names.length - 1]);
output: Surya  
Anirudh
```

```
names[2] = 'Mohit';
console.log(names);
output: Hitesh, Anurag, Mohit
```

```
let names = new Array ('Name 1', 'Name 2');
console.log(names);
names.push('Vym') → at the end of the array names
console.log(names);
```

Slice

```
console.log(names.slice(1, 3));
output: Anurag, Surya
```

exclusive (3)

Splice : To insert value inside Array

```
31 // splice
32 let names = ['Hitesh Sir', 'Anurag', 'Surya', 'Anirudh', 'Bipul'];
33 // console.log(names.slice(1, 6)); // for practice
34
35 // Splice
36 let fruits = ['Apple', 'Bacca Apple', 'Chota Apple', 'Double Apple'];
37 fruits.splice(2, 4, 'Kharo Apple', 'Maha Apple');
38 console.log(fruits);
39
40 // Output
41 // ['Apple', 'Bacca Apple', 'Chota Apple', 'Double Apple']
42 // [ 'Kharo Apple', 'Maha Apple' ]
```

Insert [for 2nd Position]
Removal of 2 elements
After 1st Position
New: Hitesh, Anurag,
Surya, Anirudh & Surya
New Apple
Old Anirudh & Surya

Concatenation

```
let arr1 = [1, 2, 3, 4]  
let arr2 = [1, 2, 3, 4]  
let arr3 = [1, 2, 3, 4]
```

```
console.log(arr1.concat(arr2));
```

```
console.log(arr1.concat(arr2, arr3));
```

Fill * Homework

```
let arr4 = [1, 2, 3, 4, 5];
```

← exclusive

```
arr4.fill('Anurag', 2, 4);
```

```
console.log(arr4);
```

output : [1, 2, 'Anurag', 'Anurag', 5]; * 4 missing

Include : check an item in an array.

```
let num = [1, 2, 3, 4, 5, 6, 7, 8, 9];
```

```
console.log(num.includes(7, 6))
```

$\frac{\downarrow}{\text{Value}}$ $\frac{\downarrow}{\text{Position}}$

output : true (7 is at position 6)

If repetition of values will check the first one

index of

```
let num = [1, 2, 3, 4, 5, 6, 7, 8, 9];
```

```
console.log(num.indexOf(5));
```

output : 4

If repetition of values will check the first one

Is Array (if array or not)

```
let num = [1, 2, 3, 4, 5, 6, 7, 8, 9];
```

```
console.log(Array.isArray(num));
```

Join

```
let num = [1, 2, 3, 4, 5, 6, 7, 8, 9];
```

```
console.log(num.join(' '));
```

Output: 1 2 3 4 5 6 7 8 9 no square bracket

```
console.log(num.join('And'));
```

so now not an

Output: 1 And 2 And 3 And 4 And 5 And 6 And 7 And 8 And 9 array → now string

```
let var = num.join(' And');
```

```
console.log(typeof(var));
```

Output: string

* let num = [1, 2, 3, 'Anurag', 4, 5, 6, 'Anurag'];
console.log(num.lastIndexOf('Anurag'));

Output: 7

* let maths = [1, 4, 9, 16, 25];

```
console.log(maths.map(Math.sqrt));
```

↓
to apply change on
all elements

* let maths = [1, 4, 9, 16, 25];
console.log(maths.pop());
console.log(maths); ↳ to modify original array
Output: 25

* reverse : to reverse the array.
console.log(maths.reverse());
Output: [25, 16, 9, 4, 1]

* shift ()
console.log(maths.shift()); Opposite of pop
Output: 1

* console.log(names.sort());
Output: [1, 4, 9, 16, 25]

* let fruits = ['Apple', 'Mango', 'Grapes'], Opposite of push
fruit.unshift('Apple 1', 'Grapes 2');
console.log(fruit);
Output: ['Apple 1', 'Grapes 2', 'Apple', 'Mango', 'Grapes']

let name = 'Anurag';
let array1 = name.split(' ');\nconsole.log(array1);
Output: ['A', 'n', 'u', 'r', 'a', 'g']

```
# let fruits = ['Apple', 'Bada Apple', 'Chota Apple'];
let Upperfruit = [ ];
```

for (const badaletter of fruit) {

```
    Upperfruit.push(badaletter.toUppercase());
    console.log(Upperfruit);
```

output: ['APPLE', 'BADA APPLE', 'CHOTA APPLE']

* **break**: come out of the entire loop

continue: skip to the next (**Skip or Omits**)

Array Method in JS and write a Blog to it?