

# TASK-13

## Array methods

1. **slice():** It won't modify the existing array,,it will always return the new array with modified elements  
**Eg:**  

```
let arr=[1,2,3,4,5;]  
arr.slice(2);  
console.log(arr)
```

**Output:**  
**[1,2,3,4,5]**
2. **splice():** it will modify the existing array with remained elements and it will returns a new array with removed elements  
**Eg:**  

```
let arr=[1,2,3,4,5;]  
arr.splice(2);  
console.log(arr)
```

**Output:**  
**[1,2]**
3. **delete():** It will remove the number but space is remains same  
**Eg:**  

```
let arr=[1,2,3,4,5;]  
delete.arr[3];  
console.log(arr)
```

**Output:**  
**[1,2,3<empty item>,5]**
4. **flat():** It is used to flat the multi dimensional array into single dimensional array  
**Eg:**  

```
let arr=[1,2,3,[4,5];]  
Let x=arr.flat(3);  
console.log(x)
```

**Output:**  
**[1,2,3,4,5]**

## Search methods in array

1. **indexOf():** It is used to search the element in the array and if the element is available it will returns its index otherwise returns -1  
**Eg:**  

```
Let arr=["hi","js","css","react"];
```

```
Let x=arr.indexOf("js")
console.log(x)
```

**Output:**

1

2. **lastIndexOf:** it will find the last index of repeating number and it will pass not number present in array then it returns as -1

**Eg:**

```
Let arr=[1,2,3,3,2,1];
Let x=arr.LastIndexOf(3)
console.log(x)
```

**Output:**

3

3. **includes():** If the searching variable is present it will give to otherwise false

**Eg:**

```
Let arr=[3,4,1,2,5,3,2,10];
Let x=arr.includes(10)
console.log(x)
```

**Output:**

true

### Iteration methods in array

in an array while iterating every element if you want to perform a specific task for each and every element then we have to use one function called as callback function

1. **map();** It is one of the method to iterate array element


**Eg:**

```
Let arr=[1,2,3,4,5]
Let x=arr.map(function(a,b){
  Return a;
});
console.log(x);
```

**Output:**

[1,2,3,4,5]

# TASK-13.1



```
1 // Task-13
2
3 // problem-1
4
5 let arr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
6 let a = arr.map(function (a) {
7     return a ** 2;
8 });
9 console.log(a);
10
11 // output:[1,4,9,16,25,36,49,64,81,100]
12
13 // problem-2
14
15 let arr2 = ["html", "css", "js", "react", "node", "git", "github"];
16 let str = arr2.map(function (str) {
17     return str.toUpperCase();
18 });
19 console.log(str);
20
21 // output:['HTML','CSS','JS','REACT','NODE','GIT','GITHUB']
22
```