

# Javascript Array



#### Intro

- 1. In computer science arrays are indexed data structures starting at zero.
- In basic definition data structure determines how data is stored in a computer memory.
- 3. When you use the right data structure at the right time in your application you'll get the best performance possible



#### **Array declaration**

The square bracket notation → []

```
1  //create an array
2  var a =[1,2,3]
```

The new Array() syntax → new Array()

```
//create an array
var a = new Array(1,2,3)
console.log(a)
```



#### **Accessing Array**

We can access an array element using index number:

```
var a = ["manju", "akhila", "swaroop"]
   console.log(a[1])  // Output: akhila
   var b = new Array(10, 20, 30, 40);
   console.log(b[3]) // Output: 40
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    //Changing array value
   a[2] = "atul"
   console.log(a) // Output:["manju", "akhila", "atul"]
```



#### **Array Iteration**

using loops (for, while, do while)

```
var a = [1,2,3,4,5,6]
//using for loop
for(var i = 0; i < a.length; ++i){
    console.log(a[i]);
//using while loop
var i = 0;
while(i < a.lenght){</pre>
    console.log(a[i]);
    ++i;
```



- using forEach()

```
var a = [1,2,3,4,5,6]

a.forEach((val) => {
    console.log(val)
})
```



### push() & pop() method

- push()
  - When we want to add an element to the end of your array



- pop()
  - When we want to remove an element to the end of your array

```
var a = [1,2,3,4]
console.log(a) //output- [1,2,3]
var b = ["cat","dog","mouse"]
b.pop()
console.log(b) // output - ["cat,"dog"]
```



#### shift() & unshift() method

- unshift()
  - When we want to add an element to the start of your array

- shift()
  - When we want to remove an element to the start of your array

```
var a = [1,2,3,4]
         // it will remove first element of array i.e 1
a.shift()
console.log(a) //output- [2,3,4]
var b = ["cat","dog","mouse"]
b.shift()
console.log(b) // output - ["dog", "mouse"]
```



## THANK YOU!

