

Arrays in JS

Collections of items

Create Array

```
let heroes = [ "ironman", "hulk", "thor", "batman" ];
```

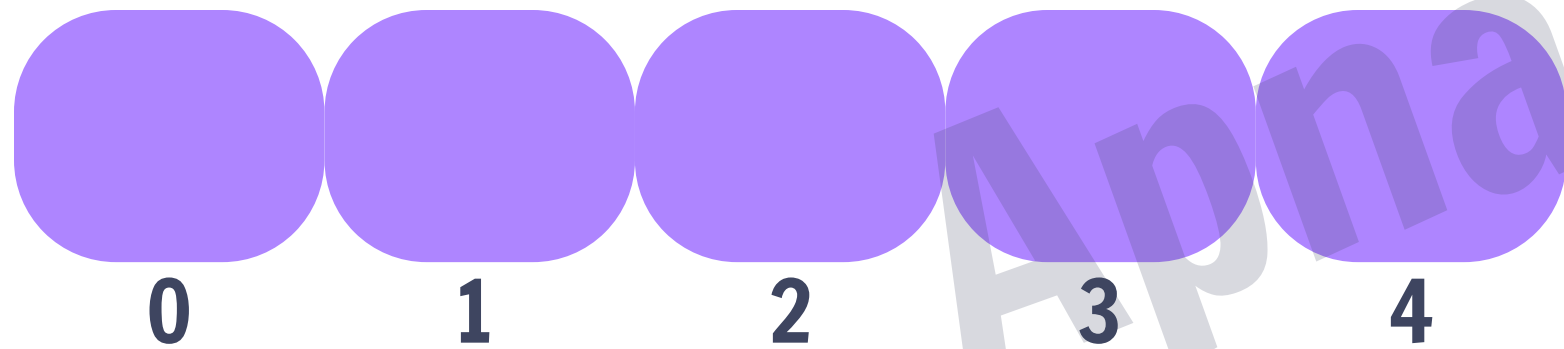
```
let marks = [ 96, 75, 48, 83, 66 ];
```

```
let info = [ "rahul", 86, "Delhi" ];
```

Arrays in JS

Array Indices

arr[0], arr[1], arr[2]



Looping over an Array

Print all elements of an array

```
let arr=[1,2,3,4,5];  
for(int i=0;i<arr.length;i++)  
  console.log(arr[i]);
```

```
  for(let i of arr)  
    console.log(arr[i]);
```

Apna College

Let's Practice

Qs. For a given array with marks of students -> [85, 97, 44, 37, 76, 60]
Find the average marks of the entire class.

```
let marks=[85,97,44,37,76,60];  
for(let i of marks)  
let sum+=i;  
let avg=sum/6;  
console.log("avg of",avg);
```

Let's Practice

Qs. For a given array with prices of 5 items -> [250, 645, 300, 900, 50]

All items have an offer of 10% OFF on them. Change the array to store final price after applying offer.

```
let marks=[250,97,44,37,76,60];  
for(let i=0;i<marks.length;i++)  
{  
  let offer=marks[i]/10;  
  marks[i]=marks[i]-offer;  
}  
console.log("arr of",marks);
```

Arrays in JS

Array Methods

Push() : add to end

```
let fooditem=["potato","tomato","apple"];  
fooditem.push("banana","burger");  
console.log(fooditem);
```

Pop() : delete from end & return

arr of 225,87.3,39.6,33.3,68.4,54 toString apply
toString() : converts array to string

[225, 87.3, 39.6, 33.3, 68.4, 54]

Arrays in JS

Array Methods

Concat() : joins multiple arrays & returns result

```
let arr=[1,2,3,4];
```

Unshift() : add to start

```
arr.unshift(0); print 0 1 2 3
```

shift() : delete from start & return

Arrays in JS

Array Methods

Slice() : returns a piece of the array

`slice(startIdx, endIdx)`

Splice() : change original array (add, remove, replace)

`splice(startIdx, delCount, newEl1...)`

`arr.splice(2,2,8,9)`

`[0 1 8 9 3 4]` output

add:

`arr.splice(2,0,1,3)`

Let's Practice

Qs. Create an array to store companies -> "Bloomberg", "Microsoft", "Uber", "Google", "IBM", "Netflix"

a. Remove the first company from the array

b. Remove Uber & Add Ola in its place

c. Add Amazon at the end

```
let name=["bloo","ms","ubr",'google',"ibm"];  
name.shift();  
name.splice(1,1,"ola");  
name.push("amazon");
```