

Question 1) Array Methods

i) concat ()

var s1 = "Anubhav"

var s2 = "Singh"

var s3 = s1.concat(s2);

Output \Rightarrow Anubhav Singh

ii) every () \Rightarrow Boolean value returning true or false depending upon conditions.

Ex \Rightarrow var age = [20, 14, 40, 25]

function canVote (age) {

return age $>= 18$;

}

Now if we try to check,

age.every (canVote);

Output \Rightarrow false.

iii) filter () \Rightarrow

var age = [20, 14, 40, 25]

function canVote (age) {

return age $>= 18$;

}

age.filter (canVote);

20, 40, 25

iv) `forEach()`

you `animals = ["cat", "dog", "mouse"]`
`animals.forEach(myfunction);`

`function myfunction [element, index]`
{

`console.log | sout 'a[' + index + '] = ' + element);`
}

`Output -> b`
`a[0] = cat`
`a[1] = dog`
`a[2] = mouse`

v) `indexOf()`

you `animals = ["cat", "dog", "mouse"]`;

you `a = animals.indexOf("dog")`;

`console.log(a);`

`Output -> 1`

vi) `join()`

you `animals = ["cat", "dog", "mouse"]`;

you `a = animals.join()`;

// array into a string

`Output -> cat, dog, mouse`

vii) `LastIndexOf()`

```

van animals = ["dog", "cat", "mouse", "dog", "elephant"];
van a = animals.lastIndexOf("dog");
console.log(a);
Output => 3
  
```

viii) `map()`

```

van numbers = [4, 9, 16, 25];
console.log(numbers.map(Math.sqrt));
Output => 2, 3, 4, 5
  
```

ix) `pop()`

```

van animals = ["dog", "cat", "mouse", "cow"];
van a = animals.pop();
Output => ["dog", "cat", "mouse"];
console.log(a)
Output => cow
  
```

x) `push()`

```

van animals = ["dog", "cat"];
van a = animals.push("cow");
Output => ["dog", "cat", "cow"]
  
```

xi) `reduce()`

```

van numbers = [200, 25, 10]
function myfunction (tot, num)
{
    return tot + num;
}
console.log(numbers.reduce(myfunction));
Output => 235
  
```

(left to right addition)

(xii) `reduceRight()` \Rightarrow

for the numbers array

`console.log(numbers.reduceRight(myFunction))`
function myFunction(total, num)

return total - num;

y

Output \Rightarrow -215

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(xiii) `reverse()` \Rightarrow

var animals = ["dog", "cat", "cow"];

`console.log(animals.reverse());`Output \Rightarrow cow, cat, dog(xiv) `shift()` \Rightarrow `console.log(animals.shift());`Output \Rightarrow ~~dog~~ cat, cow(xv) `slice()`

var animals = ["dog", "cat", "mouse", "cow"];

var a = animals.slice(1, 3);

Output \Rightarrow cat, mouse(xvi) `some()` \Rightarrow var age = [20, 14, 40, 10];

function canVote(age) {

return age >= 18;

y

`console.log(age.some(canVote));`Output \Rightarrow true.

xvii)

`console.log(animals);`
`var animals = ["dog", "cat", "mouse", "cow"];`

`Output: cat, cow, dog, mouse.`

xviii)

`splice()`

`var animals = ["dog", "cat", "cow"];`
to add element

`var a = animals.splice(2, 0, "lion", "tiger");`

`Output`

`"dog", "cat", "lion", "tiger", "cow");`

to remove element

`var a = animals.splice(1, 1);`

`Output`

`dog, cow`

xix)

`toString()`
`var animals = ["dog", "cat", "cow"];`

`var x = animals.toString();`

`Output: dog, cat, cow`

xx)

`unshift()`
`var animals = ["dog", "cat", "cow"];`

`animals.unshift("mouse");`

`Output: 4` // returns the length of new array