

~~15/5/21~~

* Array - Iteration →

- Either we can use the normal loops i.e., for, while, do-while.
 - for arrays we also have → foreach
- Ex → let myArr = [1, 2, 4];
myArr.forEach(function(item) {
 console.log(item); })

and we have for map.

myArr. map ((item) \Rightarrow {

 Console. log (item) })

\rightarrow Suppose we want to multiply every element of an array by 2 what we can do is \rightarrow

① forEach

marks. forEach ((individual) \Rightarrow {

\downarrow
 in here we require one more parameter.

\rightarrow marks. forEach ((individual, index) \Rightarrow {

 3) marks [index] = marks [index] * 2;

 Console. log (marks);

② map \rightarrow we simply return the value without needing extra parameter.

marks = marks. map ((individual) \Rightarrow {

 3) return individual * 2;

 Console. log (marks);

→ map by default creates a new array and when we return it the new array is having all the elements doubled in it apart from the original array.

→ Whereas forEach doesn't returns anything if you do so it will show you undefined.

* Array Methods →

- ① concat → It concatenates the arrays.
- ② join → It joins the elements with delimiter passed.
- ③ push → Pushes the element to the last of array.
- ④ pop → Pops / removes the last element from the array.
- ⑤ shift → first element is removed.
- ⑥ unshift → Elements are added in the beginning.
- ⑦ slice → removes the elements from the array acc. to the index provided.
- ⑧ splice → removes and add elements till the count given.
- ⑨ reverse → reverses the array.
- ⑩ sort → sorts the array in increasing order by default.

Ex → ① Concat → let myArr = [1, 2, 3];
 myArr.concat([5, 6, 7]);

O/P → [1, 2, 3, 5, 6, 7]

② Join → let myArr = ["Hi", "How", "Are", "You"];
 myArr.join(" - ")

O/P → Hi - How - Are - You.

③ Ex → Push, Pop, shift, unshift ..

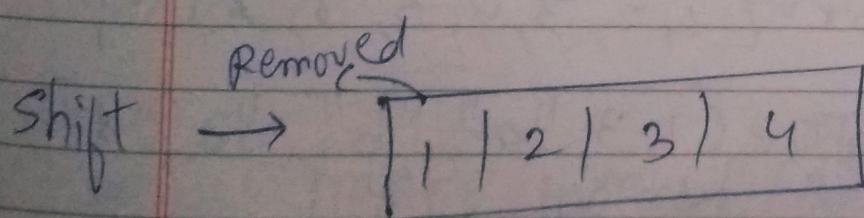
let myArr = [1, 2, 3]

Push → myArr.push(7)

O/P → [1, 2, 3, 7]

Pop → myArr.pop()

O/P → [1, 2, 3]

Shift → 

myArr.shift()

} Queue

Unshift → myArr.unshift('4', '5')

O/P → [4 | 5 | 2 | 3 | 4]

* { To → insert beginning , deletion end
(unshift) , (pop)
and insert end , deletion beginning
(push) , (shift). }

Ex → ~~①~~ slice → let myArr = [1, 2, 3, 4, 5, 6, 7]
myArr.slice(1, 3)
only 1, 2 will be included the last index
is not calculated.

Console.log (myArr)

O/P → [1, 4, 5, 6, 7]; count = elements from index

② Splice → myArr = [1, 2, 3, 4, 5, 6, 7] index
myArr.splice(1, 3, "a", "b", "c", "d");
starting index count

O/P → [1, a, b, c, d, 5, 6, 7];

③ Reverse → Arr = [1, 2, 3, 4]
Arr.reverse()

O/P → [4, 3, 2, 1]

(4) $\text{arr} = [10, 14, 12, 1, 4]$

$\text{arr}.sort()$

O/P $\rightarrow [1, 4, 10, 12, 14]$;

(5) $\text{Indexof} \rightarrow$ gives me the first index
acc. to the occurrence
of the element.

whereas,

(6) $\text{lastIndexof} \rightarrow$ gives me the last
index acc. to the occurrence
of an element.

$\text{myArr} = [1, 2, 3, 4, 5, 3]$

so, in here we have 3 at index

'2' and '5'

so, $\text{myArr.indexof}(3)$

O/P $\rightarrow 2$

and

$\text{myArr.indexof} - \text{myArr.lastIndexOf}(3)$

O/P $\rightarrow 5$

⑦ filter → It filters the elements from an array acc. to the given condition

newArr = myArr.filter(item) $\Rightarrow \{$
return (Condition)

})

console.log(newArr);

⑧ Some ~~|| every~~ → It returns us -
'true' or 'false'

If condition put in filter is even
fulfilled by a single element
then it will return "True"
otherwise "False".

⑨ Every → ~~Even~~. Check whether every
element is fulfilling the
condition or not.

If not "False" is returned.

Ex-) myArr.some(item) $\Rightarrow \{$
return ()

})

(2) myAdd. every item \Rightarrow 2

return (condition);

3)

* Maps \rightarrow (key, value) pair.

Ex \rightarrow 'emailid', 'Address'
 \downarrow \downarrow
Key value.

* Sets \rightarrow All the items are unique in set.

[Key = value.]

\rightarrow In here, we don't give the key explicitly, whatever value will be given will also be the key.

\rightarrow Both will be same.