**Array Functions**

1. **Concat**
2. Input - var arr1 = [1,2,3,4,5];

var arr2= [45,5645,342,543];

Operation :- var res = arr1.concat(arr2);

Output: - console.log(res);

[1, 2, 3, 4, 5, 45, 5645, 342, 543]

1. Input - var arr1 = [1,2,3,4,5];

var arr2= [name:”rahul”,age:23];

Operation:- var res = arr1.concat(arr2);

Output: - console.log(res);

[1, 2, 3, 4, 5]

1. **Every**

Input -

var arr1 = [1,2,3,4,5];

arr1.every(function(val){

return val > 3;

});

Output:- false;

Input:-

arr1.every(function(val){

return val%2===0 || val%2 ===1;

});

Output:- true

1. **Filter**

Input:-

Var arr1 = [1, 2, 3, 4, 5];

arr1.filter(function(val){

return val%2==0;

});

Output:- [2, 4]

1. **forEach**

Input:

Var arr1 = [1, 2, 3, 4, 5];

arr1.forEach(function(val,index){

console.log(val\*\*2,index);

});

Output:-

1 0

4 1

9 2

16 3

25 4

1. **indexOf**

Inpu**t:-**

Var arr1 = [1, 2, 3, 4, 5];

arr1.indexOf(234);

Output: -1

Inpu**t:-**

Var arr1 = [1, 2, 3, 4, 5];

arr1.indexOf(4);

Output: 3

1. **join**

Input:

myarr = [ 231,534,45,2,"ehraz"];

myarr.join();

Output:-

"231,534,45,2,ehraz"

1. **lastIndexOf**

Input:

arr3=[1,2,1,3,4,6,3,2,5,6,2,1,1,2,2,1,6474,4];

arr3.lastIndexOf(1);

Output:-

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1. **map**

Input:

myarr3=[1,2,3,4,5,"ehraz"];

myarr3.map(function(val){

return val%2;

});

Output-:

[1, 0, 1, 0, 1, NaN]

1. **pop**

Input:-

myarr3=[1, 2, 3, 4, 5, "ehraz"];

myarr3.pop()

Output:- “ehraz”

Console.log(myarr3);

[1, 2, 3, 4, 5]

1. **Push**

Input:-

myarr3=[1, 2, 3, 4, 5, "ehraz"];

myarr3.push("roy","rahul");

Output:-

8 // length of the new array

Console.log(myarr3);

[1, 2, 3, 4, 5, "ehraz", "roy", "rahul"]

1. **Reduce**

Input:-

myarr=[5,4,3,9,1]

res = myarr.reduce(function(val,sum1){

return sum1+val;

})  
  
output:-

Console.log(res);

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1. **Reverse**

Input:-

myarr=[5,4,3,9,1];

myarr.reverse()

Output:-

[1, 9, 3, 4, 5]

1. **shift**

Input:-

myarr=[5,4,3,9,1];

myarr.shift()

Output:

1

Console.log(myarr)

[9, 3, 4, 5]

1. **slice**

Input:-

myarr=[5,4,3,9,1];

myarr.slice(0,2);

Output:-

[5, 4]

1. **some**

Input:-

myarr=[5,4,3,9,1];

myarr.some(function(val){

return val>8;

});

Output-:

true;

1. **sort**

Input:-

myarr=[5,4,3,9,1];

myarr.sort()

Output:-

[1, 3, 4, 5, 9]

1. **splice**

Input:-

myarr=[1,3,4,5,9];

myarr.splice(2,4);

Output:-

[4, 5, 9]

Console.log(myarr);

[1,3]

1. **unshift**

Input:-

myarr=[1,3,4,5,9];

myarr.unshift(66,77);

Output:-

7 // length of the array

Console.log(myarr);

 [66, 77, 1, 3, 4, 5, 9]

1. **toSTring**

Input:-

myarr=[1,2,3,"raj",age="23"];

myarr.toString()

Output:- "1,2,3,raj,23"

**Regex Methods**

1. **test**

Input:-

re = /alen/;

re.test("my name is alen");

Output:- true

Input:-

re = /alen/;

re.test("my name is ehraz");

Output:- false

1. **exec**

Input:-

re = /alen/;

re.exec("my name is alen, and i am from alen");

Output:-

["alen", index: 11, input: "my name is alen, and i am from alen", groups: undefined]0: "alen"groups: undefinedindex: 11input: "my name is alen, and i am from alen"length: 1\_\_proto\_\_: Array(0)

1. **match**

Input:-

mystr="hello i am ron and my fathers name is also ron";

mystr.match("ron")

Output:-

["ron", index: 11, input: "hello i am ron and my fathers name is also ron", groups: undefined]

1. **search**

Input:-

mystr="hello i am ron and my fathers name is also ron";

mystr.search(/my/);

Output:-

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1. Split

Input:-

mystr="hello my name is ehraz";

mystr.split(/[aeiou]/);

Output:-

["h", "ll", " my n", "m", " ", "s ", "hr", "z"]

**REGEX QUESTION**

1. Take string input from user​

2. Perform two tests:​

a- it should start with 'The'/'the' and end with 'hello'. => Test 1 = true​

b. it should consist of a word which has​

h--(a,e,i,o,u)1or 0 time -- any character once -- t => Test 2 = true**​**

SOLUTION for first test: -

input:-

var input1 = prompt();

re = new RegExp(/^[Tt]he.\*?hello$/);

re.test(input1);

Output:-  
 true;

SOLUTION for second test:-

Input:-

var input1 = prompt();

re = new RegExp(/.\*?h[aeiou]?.t/);

re.test(input1);

Output:-  
 true;

**2. I am taking 10,17,18,14,15 as input.​**

**a. remove/filter out elements <= 15 and print ==> [17,18]​**

**b. print all values and index of the values. ==> ​**

**17, 0​**

**18,1​**

**c. Map and Multiply each element by 10 and print the final array ==> [170, 180]**​

SOLUTION : -

1. myarr1 = myarr1.filter((val1)=> val1>15);

[17, 18]

1. myarr1.forEach((val,index1) => console.log(val,index1))

17 0

18 1

1. Myarr1=myarr1.map((val) => val\*10);

[170, 180]