**console.log("Java Script Functions");**

**1) concat** (used to join two or more strings together)

var name = "Name : ";

var first\_name = "Priya";

var last\_name = "Kayal!";

var output = name.concat(first\_name, last\_name);

console.log("1) concat output",output);

Output

1) concat function output Name : PriyaKayal!

at ​quokka.js:8:0​

**2) every** (checks if every number in the array is even or not.)

function isEven(element) {

return (element % 2 == 0);

}

console.log("2) every output",[4,6].every(isEven));

Output

2) every function output true

at ​quokka.js:15:0​

**3) filter**(creates a new array consisting of only those elements that satisfy condition)

function isEven(value) {

return (value % 2 == 0);

}

var evenNumbers = [16,13,2,7].filter(isEven);

console.log("3) filter output",evenNumbers);

Output

3) filter output [ 16, 2 ]

at ​quokka.js:22:0​

**4) foreach**(calls a function once for each element in an array)

const letters = ['a', 'b', 'c'];

letters.forEach((letter, index, arr) => {

console.log("4) foreach output",letter,index, arr);

});

Output

4) foreach output a 0 [ 'a', 'b', 'c' ]

at ​quokka.js:27:2​

foreach output b 1 [ 'a', 'b', 'c' ]

at ​quokka.js:27:2​

foreach output c 2 [ 'a', 'b', 'c' ]

at ​quokka.js:27:2​

**5) indexOf**(searches the array for the specified item, and returns its position)

let indices = [];

let array = ['k', 'a', 'y', 'a', 'a', 'l'];

let element = 'a';

let ids = array.indexOf(element);

while (ids != -1) {

indices.push(ids);

ids = array.indexOf(element, ids + 1);

}

console.log("5) indexOf output",indices);

Output

5) indexOf output [ 1, 3, 4 ]

at ​quokka.js:39:0​

**6) join**(combines all the elements of an array into a string and return a new string)

var arr=["Gnanapriya","Spring AU","2020"]

var result=arr.join('-Bangalore-')

console.log("6) join output",result);

Output

6) join output Gnanapriya-Bangalore-Spring AU-Bangalore-2020

at ​quokka.js:44:0​

**7) lastindexOf**(returns the position of the last occurrence of a specified value in a string)

var name = 'Priyakayal';

console.log("7) lastindexOf output",'The index of the first a from the end is ' + name.lastIndexOf('a'));

Output

7) lastindexOf output The index of the first a from the end is 8

at ​quokka.js:48:0​

**8) map**(creates a new array populated with the results of calling a provided function on every element in the calling array)

let numbers = [4, 9]

let sq\_roots = numbers.map(function(num) {

return Math.sqrt(num)

})

console.log("8) Map output",sq\_roots);

Output

8) Map output [ 2, 3 ]

at ​quokka.js:55:0​

**9)pop()** //The pop() method removes items to the end of an array, and returns the new length.

var car=["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

Output:

car.pop()

6

["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

**10)push()** //The push() method adds new items to the end of an array, and returns the new length.

var car=["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

Output:

car.push("TATA")

7

["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER", "TATA"]

**11)reduce()**//The reduceRight() method executes a provided function for each value of the array (from left-to-right).

Output:

var numbers = [500, 50, 25];

function reduceright(total, num) {

return total - num;

}

number.reduce(reduceright)

**12)reduceRight()**//The reduceRight() method executes a provided function for each value of the array (from right-to-left).

Output:

var numbers = [500, 50, 25];

function reduceright(total, num) {

return total - num;

}

number.reduceRight(reduceright)

-525

425

**13)reverse()** //reverse() method reverse the items in the array

var car=["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

car.reverse()

["MINI COOPER", "JAGUAR", "BENZ", "HYUNDAI", "MARUTHI", "BMW"]

**14)shift()** //The shift() method removes the first item of an array.

Output:

var car=["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

car.shift()

["MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

**15)slice()** //The slice() method returns the selected elements in an array, as a new array object.

car.slice(1,3)

output:

var car=["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

(2) ["MARUTHI", "HYUNDAI"]

**16)some()**//The some() method checks if any of the elements in an array pass a test (provided as a function).

output:

var car=["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

function len(caritem){

return caritem.length>4;

}

True

**17)tosource()**

Represents the source code of the object

**18) sort()** //The sort() method sorts an array alphabetically

Output:

var car=["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

["BENZ", "BMW", "HYUNDAI", "JAGUAR", "MARUTHI", "MINI COOPER"]

**19)splice()** The splice() method adds/removes items to/from an array, and returns the removed item(s).

Output:

var car = ["BMW", "BENZ", "JAGUAR", "MINI COOPER"];

car.splice(1,0,"MARUTHI","HYUNDAI”);

(6) ["BMW", "MARUTHI", "HYUNDAI", "BENZ", "JAGUAR", "MINI COOPER"]

**20)toString()** The **toString()** function in Javascript is used with a number and converts the number to a string.

Output:

var a=Date.now();

"1578811833635"

**21)unshift**  The unshift() method adds new items to the beginning of an array, and returns the new length.

var car = ["BMW", "BENZ", "JAGUAR", "MINI COOPER"];

car.unshift("BMW","MARUTHI");

Output:

(6) ["BMW", "MARUTHI", "BMW", "BENZ", "JAGUAR", "MINI COOPER"]