[Concat Function](#ConcatFunction)

[Destructuring](#Destructuring)

[Filter Function](#FilterFunctioin)

[High Order Function](#HighOrderFunction)

[Join](#join)

[Map Function](#MapFunction)

[Polymorphism](#polymorphism)

[QuerySelectorAll Method](#querySelectorAll)

[QuerySelector Method](#querySelector)

[Reduce Function](#ReduceFunction)

[rest](#rest)

[Split](#split)

[Spread](#Spread)

[Call](#Call)

[Apply](#Apply)

[Bind](#Bind)

[Promise](https://www.geeksforgeeks.org/javascript-promise/)

[Fetch](https://www.geeksforgeeks.org/javascript-fetch-method/)

[Map](#MapFunction)

[Reduce](#ReduceFunction)

[Filter](#FilterFunctioin)

A **higher order function** is a function that takes one or more functions as arguments, or returns a function as its result. There are several different types of higher order functions like map and reduce.

map() creates a new array from calling a function for every array element.

map() does not execute the function for empty elements.

map() does not change the original array.

The filter() method creates a new array filled with elements that pass a test provided by a function.

The filter() method does not execute the function for empty elements.

The filter() method does not change the original array.

The **reduce**() method is an iterative method. It runs a "reducer" callback function over all elements in the array, in ascending-index order, and accumulates them into a single value. Every time, the return value of callbackFn is passed into callbackFn again on next invocation as accumulator.

The concat() method joins two or more strings.

The concat() method does not change the existing strings.

The concat() method returns a new string.

Document: querySelector() method. The Document method querySelector() returns the first Element within the document that matches the specified selector, or group of selectors. If no matches are found, null is returned.

The querySelectorAll() method returns all elements that matches a CSS selector(s).

The querySelectorAll() method returns a [NodeList](https://www.w3schools.com/js/js_htmldom_nodelist.asp).

The querySelectorAll() method throws a SYNTAX\_ERR exception if the selector(s) is invalid

The split() method splits a string into an array of substrings.

The split() method returns the new array.

The split() method does not change the original string.

If (" ") is used as separator, the string is split between words.

The join() method returns an array as a string.

The join() method does not change the original array.

Any separator can be specified. The default is comma (,).

The **polymorphism** is a core concept of an object-oriented paradigm that provides a way to perform a single action in different forms. It provides an ability to call the same method on different JavaScript objects.

Destructuring is a JavaScript expression that allows us to extract data from arrays, objects, and maps and set them into new, distinct variables. Destructuring allows us to extract multiple properties, or items, from an array​ at a time.

The **rest** operator in javaScript allows a function to take an indefinite number of arguments and bundle them in an array, thus allowing us to write functions that can accept a variable number of arguments, irrespective of the number of parameters defined.

The Spread operator allows an iterable to expand in places where 0+ arguments are expected. It is mostly used in the variable array where there is more than 1 value is expected. It allows us the privilege to obtain a list of parameters from an array.

The syntax of the Spread operator is the same as the Rest parameter but it works completely opposite of it.

With the call() function, you can write a method that can be used on different objects.

Apply function in the JavaScript is used to call a function on different objects with the given this value, and the arguments are passed in the form of an array. This method allows us to write methods that can be used on different objects and hence increase the reusability of code

With the bind() method, an object can borrow a method from another object.