**Javascript-for each**

They call a function once for each element.

Eg

Const numbers=[1,2,3,4,5];

Let num=””;

Numbers.foreach(myfunction);

Function myfunction(value,index,array);

Num+=value+”<br>”;

**Javascript array map**

map array creates a new function by performing on each array element.

Map doesn’t change original arrays.

Map doesn’t execute the arrays without values.

const numbers1 = [45, 4, 9, 16, 25];  
const numbers2 = numbers1.map(myFunction);  
  
function myFunction(value, index, array) {  
  return value \* 2;  
}

**javascript array filter**

the filter method creates a new array with array element.

Const number=[1,3,5,7,9];

Const lesser18=number.filter(myfunc);

Function myfunc(value,index,array,)

{

Return value;  
}

**Javascript reduce**

Reduce method is used where we can reduce the values into single array.

Reduce method works from left and right of the array.

Reduce method doesn’t reduce the original array.

Const numbers=[3,5,7,8,10];

Const value1=numbers.reduce(myfunction);

Function myfunction (value,index,array);

Myfunction total+value;

**Array reduceright()**

**The** reduce right elements runs to produce each value.

They can work from left to right in an array.

The reduce method doesn’t reduce original array.

Const numbers=[1,3,5,7,8,9];

Const num= numbers.reduceright(myfunction);

Function myfunction (total,array,index,value);

Return total+value;

**FOR LOOP**

For can execute the block of code,number of times.

We can run the same code again and again with different number of values.

* for - loops through a block of code a number of times
* for/in - loops through the properties of an object
* for/of - loops through the values of an iterable object
* while - loops through a block of code while a specified condition is true
* do/while - also loops through a block of code while a specified condition is true
* The for loop has the following syntax:
* for (*statement 1*;*statement 2*;*statement 3*) {

}

Statement

Condition

Iteration.

**Java in statement**

Java -in iterates through the properties of object.

for (key in object) {  
  // *code block to be executed*  
}

**java for-of**

The JavaScript for of statement loops through the values of an iterable object.

It lets you loop over iterable data structures such as Arrays, Strings, Maps, NodeLists, and more:

for (variable of iterable) {  
  // *code block to be executed*  
}

For every iteration the value of the next property is assigned to the variable. Variable can be declared with const, let, or var.