# JSON iterate over all for loops

## Different kinds of loops:

* 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
* for/each - method calls a function (a callback function) once for each array element.

## JavaScript For loop

The JavaScript for loop iterates the elements for the fixed number of times. It should be used if number of iteration is known. The syntax of for loop is given below.

for (initialization; condition; increment)

{

code to be executed

}

As well as :

<script>

for (i=1; i<=2; i++)

{

document.write(i + "<br/>")

}

</script>

**Output:**

1

2

## JavaScript: For-In Loop

This JavaScript tutorial explains how to use the for-in loop with syntax and examples.

**Description**

In JavaScript, the for-in loop is a basic control statement that allows you to loop through the properties of an object. The statements of code found within the loop body will be executed once for each property of the object.

**Syntax**

The syntax for the for-in loop in JavaScript is:

for (variable in object) {

// statements

}

**Parameters or Arguments**

***variable***

The name of a variable, an element of an array, or the property of an object.

***object***

A valid object or name of an object whose properties will be iterated through.

***statements***

The statements of code to execute each pass through the loop.

**Note**

The body of the for-in loop will execute once for each property of the object.

The for-in loop does not loop through all of the properties of the object. It is can only loop through the enumerable properties such as user-defined properties or inherited user-defined properties. Any properties that are flagged as non-enumerable (such as built-in properties or methods) will not be iterated through using the for-in loop.

## The For Of Loop

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:

**Syntax**

for (variable of iterable) {

// code block to be executed

}

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

iterable - An object that has iterable properties.

## 4)JavaScript forEach()

The forEach() method calls a function and iterates over the elements of an array. The forEach() method can also be used on Maps and Sets.

**JavaScript forEach**

The syntax of the forEach() method is:

array.forEach(function(currentValue, index, arr))

Here,

function(currentValue, index, arr) - a function to be run for each element of an array

currentValue - the value of an array

index (optional) - the index of the current element

arr (optional) - the array of the current elements