JavaScript Array

**JavaScript array** is an object that represents a collection of similar type of elements.

There are 3 ways to construct array in JavaScript

1. By array literal
2. By creating instance of Array directly (using new keyword)
3. By using an Array constructor (using new keyword)

1) JavaScript array literal

The syntax of creating array using array literal is given below:

1. var arrayname=[value1,value2.....valueN];

As you can see, values are contained inside [ ] and separated by , (comma).

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Let's see the simple example of creating and using array in JavaScript.

<script>

var emp=["Sonoo","Vimal","Ratan"];

for (i=0;i<emp.length;i++){

document.write(emp[i] + "<br/>");

}

</script>

The .length property returns the length of an array.

**Output of the above example**

Sonoo  
Vimal  
Ratan

2) JavaScript Array directly (new keyword)

The syntax of creating array directly is given below:

1. var arrayname=new Array();

Here, **new keyword** is used to create instance of array.

Let's see the example of creating array directly.

<script>

var i;

var emp = new Array();

emp[0] = "Arun";

emp[1] = "Varun";

emp[2] = "John";

for (i=0;i<emp.length;i++){

document.write(emp[i] + "<br>");

}

</script>

**Output of the above example**

Arun  
Varun  
John

3) JavaScript array constructor (new keyword)

Here, you need to create instance of array by passing arguments in constructor so that we don't have to provide value explicitly.

The example of creating object by array constructor is given below.

<script>

var emp=new Array("Jai","Vijay","Smith");

for (i=0;i<emp.length;i++){

document.write(emp[i] + "<br>");

}

</script>

**Output of the above example**

Jai  
Vijay  
Smith