Javascript Array Methods

The built-in array method is rather versatile and inserts new, deletes existing, and replaces existing elements with new elements in the array.

Here is a list of the array methods associated with the Mathode and description is as following :

| **Method** | **Description** |
| --- | --- |
| join() | Joins all elements of an array into a string. |
| pop() | Removes the last element from an array and returns that element. |
| push() | Adds one or more elements at the end of an array and returns the new length of the array. |
| shift() | Removes the first element from an array and returns that element. |
| slice() | Returns a new array with specified start to end elements. |
| concat() | Returns new array by combining values of an array that is specified as parameter with existing array values. |
| sort() | Sorts the elements of an array. |
| splice() | Adds and/or removes elements from an array. |
| unshift() | Adds one or more elements to the front of an array and returns the new length of the array. |

<html>

<head>

<title>Javascript Array Method join()</title>

</head>

<body>

<script type="text/javascript">

var ary = new Array("One","Two","Three");

var str\_1 = ary.join();

document.write("Ex 1 : " + str\_1 );

var str\_1 = ary.join(", ");

document.write("<br />Ex 2 : " + str\_1 );

var str\_1 = ary.join(" + ");

document.write("<br />Ex 3: " + str\_1 );

</script>

</body>

</html>

<html>

<head>

<title>Javascript Array Method pop()</title>

</head>

<body>

<script type="text/javascript">

var nums = [1, 7, 18];

var element = nums.pop();

document.write("Element is : " + element );

var element = nums.pop();

document.write("<br />Element is : " + element );

</script>

</body>

</html>

Array push() Method :

<html>

<head>

<title>Javascript Array Method push()</title>

</head>

<body>

<script type="text/javascript">

var numbers = new Array(1, 7, 18);

var length = numbers.push(26);

document.write("New numbers is : " + numbers );

length = numbers.push(45);

document.write("<br />New numbers is : " + numbers );

</script>

</body>

</html>

Array shift() Method :

<html>

<head>

<title>Javascript Array Method shift()</title>

</head>

<body>

<script type="text/javascript">

var element = [36, 2, 4, 3].shift();

document.write("Removed element is : " + element );

</script>

</body>

</html>

Array slice() Method :

<html>

<head>

<title>Javascript Array Method slice()</title>

</head>

<body>

<script type="text/javascript">

var ary = ["html", "css", "java", "javascript", "python"];

document.write("First.slice( 1, 3) : " + ary.slice( 1, 3) );

document.write("<br />Second.slice( 2, 5) : " + ary.slice( 2, 5) );

</script>

</body>

</html>

Array concat() Method :

<html>

<head>

<title>Javascript Array Method concat()</title>

</head>

<body>

<script type="text/javascript">

var books = ["Java", "PHP", "Python"];

var numeric = [1, 2, 3];

var my\_books = books.concat(numeric);

document.write("Books : " + my\_books );

</script>

</body>

</html>

Array sort() Method :

<html>

<head>

<title>Javascript Array Method sort()</title>

</head>

<body>

<script type="text/javascript">

var books = new Array("java", "html", "php", "python", "css");

var sorted = books.sort();

document.write("My Books : " + sorted );

</script>

</body>

</html>

Array splice() Method :

<html>

<head>

<title>Javascript Array Method splice()</title>

</head>

<body>

<script type="text/javascript">

var books = ["PHP", "JAVA", "PYHTON", "HTML", "CSS"];

var removed = books.splice(2, 0, "BOOTSTRAP");

document.write("After adding 1 : " + books );

document.write("<br />Removed is : " + removed);

removed = books.splice(3, 1);

document.write("<br />After adding 1 : " + books );

document.write("<br />Removed is : " + removed);

</script>

</body>

</html>

Array unshift() Method :

<html>

<head>

<title>Javascript Array Method unshift()</title>

</head>

<body>

<script type="text/javascript">

var laptops = new Array("apple", "hp", "dell", "lenovo");

var length = laptops.unshift("acer");

document.write("Returned array is : " + laptops );

document.write("<br /> Length of the array is : " + length );

</script>

</body>

</html>

Array unshift() Method :

<html>

<head>

<title>Javascript Array Method unshift()</title>

</head>

<body>

<script type="text/javascript">

var laptops = new Array("apple", "hp", "dell", "lenovo");

var length = laptops.unshift("acer");

document.write("Returned array is : " + laptops );

document.write("<br /> Length of the array is : " + length );

</script>

</body>

</html>

<html>

<head>

<title>Javascript try ....catch statement.</title>

</head>

<body>

<p id="error\_Mesg"></p>

<script type="text/javascript">

try

{

var result = Sum(15, 21); // Sum is not defined yet

}

catch(ex)

{

document.getElementById("error\_Mesg").innerHTML = ex;

}

</script>

</body>

</html>

JavaScript throw Statement :

<html>

<head>

<title>Javascript throw statement.</title>

</head>

<body>

<h3 id="error\_Mesg"></h3>

<script type="text/javascript">

try

{

throw {

number : 404,

message : "This webpage is not available !"

};

}

catch(ex)

{

document.getElementById("error\_Mesg").innerHTML = ex.number + " - " + ex.message;

}

</script>

</body>

</html>

Javascript finally Statement :

<html>

<head>

<title>Javascript finally statement.</title>

</head>

<body>

<p id="error\_Mesg">Error : </p>

<p id="mesg"></p>

<script type="text/javascript">

try

{

var result = Sum(15, 21); // Sum is not defined yet

}

catch(ex)

{

document.getElementById("error\_Mesg").innerHTML += ex;

}

finally{

document.getElementById("mesg").innerHTML = "finally block executed";

}

</script>

</body>

</html>

# JavaScript Dialog box

All JavaScript dialog box is a predefined function which is used for to perform different-different task. Some function are given below;

|  |  |
| --- | --- |
| **function** | **Discription** |
| alert() | To give alert message to user. |
| prompt() | To input value from used. |
| confirm() | To get confirmation from user before executing some task. |

## Alert()

Alert function of java script is used to give an alert message to the user.

### Alert function example

## Example

<!doctype html>

**<html>**

**<head>**

**<script>**

**function** alertmsg()

{

alert("Alert function call");

}

**</script>**

**</head>**

**<form>**

**<input** type="button" value="Click Me" onclick="alertmsg()"**/>**

**</form>**

**</html>**

## prompt()

Prompt function of java script is used to get input from the user.

### prompt() function example

## Example

<!doctype html>

**<html>**

**<head>**

**<script>**

**function** alertmsg()

{

a=prompt("Enter your name:");

alert(a);

}

**</script>**

**</head>**

**<form>**

**<input** type="button" value="Click Me" onclick="alertmsg()"**/>**

**</form>**

**</html>**

## confirm()

confirm function of java script is used to get confirmation from user before executing some task.

### confirm() function example

## Example

<!doctype html>

**<html>**

**<head>**

**<script>**

**function** alertmsg()

{

a=prompt("Enter your name:");

confirm(a);

}

**</script>**

**</head>**

**<form>**

**<input** type="button" value="Click Me" onclick="alertmsg()"**/>**

**</form>**

**</html>**