**JS Array Methods and Function**

**1) Array**

<!DOCTYPE html>

<html>

<head>

<title>Name List</title>

</head>

<body>

<script type="text/javascript">

var name\_list = new Array("Arun", "Barun","Karun",

"Marun","Ramun","zamun");

var new\_name, index, last;

//loop to get new name and insert it

while(new\_name = prompt("Please type a new name","")){

//loop to find new place for the new names

last = name\_list.length-1;

while (last >=0 && name\_list[last] > new\_name){

name\_list[last + 1] = name\_list[last];

last--;

}//end of inner while loop

name\_list[last + 1] = new\_name;

document.write("<p><b>The new name list is: </b>", "<br/>");

for (index = 0;index < name\_list.length; index++)

document.write(name\_list[index],"<br/>") ;

document.write("</p>")

}// end of outer while loop

</script>

</body>

</html>

**2) push, pop, shift, unshift**

<!DOCTYPE html>

<html>

<body>

<p>Click the button to remove the last element from the array.</p>

<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<script>

var fruits = ["Banana", "Orange", "Apple", "Mango"];

document.getElementById("demo").innerHTML = fruits;

function myFunction() {

fruits.pop();//Use fruits.push("Kiwi");

//Use fruits.shift();

//Use fruits.unshift("kiwi");

document.getElementById("demo").innerHTML = fruits;

}

</script>

</body>

</html>

**3) Two dimensional Array (Array of Array)**

<!DOCTYPE html>

<html>

<head>

<title>Arrays of Arrays</title>

</head>

<body>

<script type="text/javascript">

//create an array object with three arrys as its elements

var nested\_array = [[2, 4, 6],

[1, 3, 5],

[10, 20, 30]

];

//display the elements of nested\_list

for(var row=0; row <= 2; row++){

document.write("ROW ", row, ": ");

for(var col = 0; col <=2; col++)

document.write(nested\_array[row][col], " ");

document.write("<br/>");

}

</script>

</body>

</html>

**4) Local Variable**

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Scope</h2>

<p>Outside myFunction() carName is undefined.</p>

<p id="demo1"></p>

<p id="demo2"></p>

<script>

myFunction();

function myFunction() {

var carName = "Volvo";

document.getElementById("demo1").innerHTML = typeof carName + " " + carName;

}

document.getElementById("demo2").innerHTML = typeof carName;

</script>

</body>

</html>

**5) Function parameter**

<!DOCTYPE html>

<html>

<head>

<title>Parameters</title>

<script type="text/javascript">

function params(a,b){

document.write("Function params was passed ",arguments.length,"Parameter <br/>");

for (var arg = 0; arg < arguments.length; arg++)

document.write(arguments[arg],"<br/>");

document.write("<br/>");

}

</script>

</head>

<body>

<script type="text/javascript">

params("Suwash");

params("Suwash","Nirmal");

params("Suwash","Nirmal","Samundra");

</script>

</body>

</html>

**5) Pattern Matching**

<!DOCTYPE html>

<html>

<body>

<p>Click the button to perfom a global search for the letters "os" in a string, and display the matches.</p>

<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<script>

function myFunction() {

var str = "cosmos college of management and Technology";

var res = str.match(/os/g);

document.getElementById("demo").innerHTML = res;

}

</script>

</body>

</html>

**6) Sorting an array**

<!DOCTYPE html>

<html>

<body>

<h2>JS array sort</h2>

<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<script>

var fruits = ["Prabesh", "Atit", "Aastha", "Kathayat"];

document.getElementById("demo").innerHTML = fruits;

function myFunction() {

fruits.sort();

// reverse it:

fruits.reverse();

document.getElementById("demo").innerHTML = fruits;

}

</script>

</body>

</html>