**JavaScript**

**Part-5**

What is an Array?

An array is a special variable, which can hold more than one value at a time.

If you have a list of items (a list of car names, for example), storing the cars in single variables could look like this:

var car1 = "Saab";
var car2 = "Volvo";
var car3 = "BMW";

However, what if you want to loop through the cars and find a specific one? And what if you had not 3 cars, but 300?

The solution is an array!

Creating an Array

Using an array literal is the easiest way to create a JavaScript Array.

Syntax:

var *array\_name* = [*item1*, *item2*, ...];

Example

<html>

<body>

<h2>JavaScript Arrays</h2>

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

<script>

var cars = ["Saab", "Volvo", "BMW"];

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

</script>

</body>

</html>

Access the Elements of an Array

You access an array element by referring to the **index number**.

This statement accesses the value of the first element in cars:

var name = cars[0];

Access the Full Array

With JavaScript, the full array can be accessed by referring to the array name:

Example

var cars = ["Saab", "Volvo", "BMW"];
document.getElementById("demo").innerHTML = cars;

Arrays are Objects

Objects use **names** to access its "members". In this example, person.firstName returns John:

Object:

var person = {firstName:"John", lastName:"Doe", age:46};

Example

<html>

<body>

<h2>JavaScript Objects</h2>

<p>JavaScript uses names to access object properties.</p>

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

<script>

var person = {firstName:"John", lastName:"Doe", age:46};

document.getElementById("demo").innerHTML = person["firstName"];

</script>

</body>

</html>

## **Looping Array Elements**

The safest way to loop through an array, is using a for loop:

Example

<html>

<body>

<h2>JavaScript Arrays</h2>

<p>The best way to loop through an array is using a standard for loop:</p>

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

<script>

var fruits, text, fLen, i;

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

fLen = fruits.length;

text = "<ul>";

for (i = 0; i < fLen; i++) {

 text += "<li>" + fruits[i] + "</li>";

}

text += "</ul>";

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

</script>

</body>

</html>

**Prompt Command**

**Uses for input**

var retVal = prompt("Enter your name : ", "your name here");

 document.write("You have entered : " + retVal);