var mixedArray = [1, "two", true, 1.5 ];

Example: Array Constructor Syntax

var stringArray = new Array();

stringArray[0] = "one";

stringArray[1] = "two";

stringArray[2] = "three";

stringArray[3] = "four";

var numericArray = new Array(3);

numericArray[0] = 1;

numericArray[1] = 2;

numericArray[2] = 3;

var mixedArray = new Array(1, "two", 3, "four");

stringArray[0]; // returns 1

for (var i = 0; i < stringArray.length ; i++)

{

stringArray[i];

}

 Points to Remember :

1. An array is a special type of variable that stores multiple values using a special syntax.
2. An array can be created using array literal or Array constructor syntax.
3. Array literal syntax: var stringArray = ["one", "two", "three"];
4. Array constructor syntax:var numericArray = new Array(3);
5. A single array can store values of different data types.
6. An array elements (values) can be accessed using zero based index (key). e.g. array[0].
7. An array index must be numeric.
8. Array includes length property and various methods to operate on array objects.

| Method | Description |
| --- | --- |
| concat() | Returns new array by combining values of an array that is specified as parameter with existing array values. |
| every() | Returns true or false if every element in the specified array satisfies a condition specified in the callback function. Returns false even if single element does not satisfy the condition. |
| filter() | Returns a new array with all the elements that satisfy a condition specified in the callback function. |
| forEach() | Executes a callback function for each elements of an array. |
| indexOf() | Returns the index of the first occurrence of the specified element in the array, or -1 if it is not found. |
| join() | Returns string of all the elements separated by the specified separator |
| lastIndexOf() | Returns the index of the last occurrence of the specified element in the array, or -1 if it is not found. |
| map() | Creates a new array with the results of calling a provided function on every element in this array. |
| 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. |
| reduce() | Pass two elements simultaneously in the callback function (till it reaches the last element) and returns a single value. |
| reduceRight() | Pass two elements simultaneously in the callback function from right-to-left (till it reaches the last element) and returns a single value. |
| reverse() | Reverses the elements of an array. Element at last index will be first and element at 0 index will be last. |
| shift() | Removes the first element from an array and returns that element. |
| slice() | Returns a new array with specified start to end elements. |
| some() | Returns true if at least one element in this array satisfies the condition in the callback function. |
| sort() | Sorts the elements of an array. |
| splice() | Adds and/or removes elements from an array. |
| toString() | Returns a string representing the array and its elements. |
| unshift() | Adds one or more elements to the front of an array and returns the new length of the array. |