Title: Short note on Array

Answer:

The JavaScript `Array` object is a global object that is used in the construction of arrays; which are high-level, list-like objects.

Create an Array

```
var fruits = ['Apple', 'Banana'];

console.log(fruits.length);
// 2
```

Access (index into) an Array item

```
var first = fruits[0];
// Apple

var last = fruits[fruits.length - 1];
// Banana
```

Loop over an Array

```
fruits.forEach(function(item, index, array) {
  console.log(item, index);
});
// Apple 0
// Banana 1
```

Add to the end of an Array

```
var newLength = fruits.push('Orange');
// ["Apple", "Banana", "Orange"]
```

Remove from the end of an Array

```
var last = fruits.pop(); // remove Orange (from the end)
// ["Apple", "Banana"];
```

Remove from the front of an Array

```
var first = fruits.shift(); // remove Apple from the front
// ["Banana"];
```

Add to the front of an Array

```
var newLength = fruits.unshift('Strawberry') // add to the front
// ["Strawberry", "Banana"];
```

Find the index of an item in the Array

```
fruits.push('Mango');
// ["Strawberry", "Banana", "Mango"]

var pos = fruits.indexOf('Banana');
// 1
```

Remove an item by index position

```
var removedItem = fruits.splice(pos, 1); // this is how to remove an item

// ["Strawberry", "Mango"]
```

Remove items from an index position

```
var vegetables = ['Cabbage', 'Turnip', 'Radish', 'Carrot'];
console.log(vegetables);
// ["Cabbage", "Turnip", "Radish", "Carrot"]

var pos = 1, n = 2;

var removedItems = vegetables.splice(pos, n);
// this is how to remove items, n defines the number of items to be removed,
// from that position(pos) onward to the end of array.

console.log(vegetables);
// ["Cabbage", "Carrot"] (the original array is changed)

console.log(removedItems);
// ["Turnip", "Radish"]
```

Copy an Array

```
var shallowCopy = fruits.slice(); // this is how to make a copy
// ["Strawberry", "Mango"]
```

Tags: arrays, javascript