**Tutorial #6**

Arrays

SOEN 287

**JavaScript Arrays**

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

Create an Array var fruits = ["Apple", "Banana"];

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

Syntax [element0, element1, ..., elementN] new Array(element0, element1,...) new Array(arrayLength)

**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"]

Copy an Array var shallowCopy = fruits.slice(); // this is how to make a copy // ["Strawberry"]