JavaScript
Functions & Objects-PT2
COGS3
Interacting with the DOM

The window object serves as the global object. Like all objects it has properties and methods.
GetElementById

you can use:
- tag names
- class names & attributes
- get a set of elements
  → the entire class
- get form values from the user

look up & retrieve one or more elements from the DOM
Create new elements and add them to the DOM.

Remember—changes made to the DOM will show up immediately.

😊 That is what you want!
Remove elements from the DOM by taking a PARENT element & removing any of its children. 

Browser is updated immediately with this change.
You can access the
• text content
  of an element
• attributes of
  an element
  i.e. perhaps change
  the class
  associated
  with the
  element.
  Cod eh? 😊

Access or
create an
attribute
like id
or class

ul id="list"
li
type: ARRAY

```
var tempByHour = new Array();
tempByHour[0] = 59.2;
tempByHour[1] = 60.1;
tempByHour[2] = 63;
tempByHour[3] = 65;
tempByHour[4] = 62;
```

For every index in the array, there is a corresponding value.

You can add more values to the array as needed.

Here's the variable for the array.

Each value has an index number - starts with 0!

Holds a collection of values.
```javascript
var tempByHour = new Array();
tempByHour[0] = 59.2;
tempByHour[1] = 60.1;
tempByHour[2] = 63;
tempByHour[3] = 65;
tempByHour[4] = 62;

// is the same as
var tempByHour = [59.2, 60.1, 63, 65, 62];
```
var tempByHour = [59.2, 60.1, 63, 65, 62];

tempByHour[5] = 61;

By using a new index, we get a new item in the array.

var message = "The temperature at 5 was " + tempByHour[5];
alert(message);

to access the value of the temperature at index 5, we just reference the array at index 5.

var numItems = tempByHour.length;

Ya gotta know the size of your array!
<doctype html>
<html lang="en">
<head>
<title>Temperatures</title>
<meta charset="utf-8">
<script>
 function showTemps() {
    var tempByHour = new Array();
    tempByHour[0] = 59.2;
    tempByHour[1] = 60.1;
    tempByHour[2] = 63;
    tempByHour[3] = 65;
    tempByHour[4] = 62;
    for (var i = 0; i < tempByHour.length; i++) {
        var theTemp = tempByHour[i];
        var id = "temp" + i;
        var li = document.getElementById(id);
        if (i == 0) {
            li.innerHTML = "The temperature at noon was " + theTemp;
        } else {
            li.innerHTML = "The temperature at " + i + " was " + theTemp;
        }
    }
}
window.onload = showTemps;
</script>
</head>
<body>
<h1>Temperatures</h1>
<ul>
    <li id="temp0"></li>
    <li id="temp1"></li>
    <li id="temp2"></li>
    <li id="temp3"></li>
    <li id="temp4"></li>
</ul>
</body>
</html>
1. Define the function
2. When will the function run?
3. What is "words1", "words2", & "words3"?
4. What is "phrase"?
5. What do these two lines of code do? Try to guess!
6. What happens when the page is reloaded again?