

JavaScript Exercises

Mapping in the Cloud

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1. Enter all code examples as separate files and debug. You will likely make typing mistakes and this will cause the code examples to not work properly. Make sure they work properly before you go on to step 2.
2. Change some aspect of the JavaScript in the code examples. A change might be the use of a different formula, different output text, or different function call.
3. Put these files in a folder called JavaScript.
4. Create an index.htm file for your new JavaScript folder. This index.htm file would look like the following:

```
<html>
<h1> My JavaScript programs </h1>
<h3> ____Name_____ </h3>
<hr>
<a href=7-1.html> 7-1 </a>
<br>
<a href=7-2.html> 7-2 </a>
<br>
etc.
</html>
```

5. Upload the JavaScript folder to your CartGIS folder in the Public folder in myfolder.
6. Modify your base index.htm file by adding the following lines:

```
<h3> My JavaScript Examples </h3>
<a href=JavaScript/> JavaScript Examples </a>
```

7-1.html

```
<html>
<body>

<script type="text/javascript">
document.write("Hello World!")
</script>

</body>
</html>
```

7-2.html

```
<html>
<body>

<script type="text/javascript">
var x = 2 * 2
document.write("x = ", x)
</script>

</body>
</html>
```

7-3.html

```
<html>
<HEAD>
<SCRIPT LANGUAGE="JavaScript">

function square(number) {
    return number * number
}
</SCRIPT>
</HEAD>
<BODY>
<SCRIPT>
    document.write("The function returned ",
square(5), ".")
</SCRIPT>
<P> All done.
</BODY>
</html>
```

The following file is called by 7-4.html

7-4common.js

```
function square(number) {
    return number * number
}
```

7-4.html

```
<HTML>
<HEAD>
<TITLE>Referencing a file of functions</TITLE>
<SCRIPT SRC="7-4common.js">
</SCRIPT>
</HEAD>
<BODY>
<SCRIPT>
    document.write("The function returned ",
square(5), ".")
</SCRIPT>
<P> All done.
</BODY>
</HTML>
```

7-6.html

```
<html>
<script type="text/javascript">

function Time()
{
var currentTime = new Date()
var hours = currentTime.getHours()
var minutes = currentTime.getMinutes()
var seconds = currentTime.getSeconds()

// call the AddZero function to add a zero in
front of numbers that are less than 10
hours = AddZero(hours)
minutes = AddZero(minutes)
seconds = AddZero(seconds)

// write out the time
document.write("<b>" + hours + " hours " +
minutes + " minutes " + seconds + " seconds
</b>")
}

function AddZero(i)
{
if (i<10)
    {i="0" + i}
    return i
}
</script>
</head>

// call the Time function
<body onload="Time()">

</body>
</html>
```