# JavaScript Arrays – Climate

In this assignment you will work with an array of Philadelphia climate data.

## Getting started (Together as a class)

1. Retrieve assignment17\_climate.zip provided by your instructor.
2. Extract the code into your mis2402workspace and open the index.html file in Visual Studio Code.
3. Observe the working code in the function named displayRainfall. Things to note:
   1. Use of .html() and .append() … how are they different?
   2. Use of the .length property … what does it refer to?
   3. Use of numeric and associative indexes.
   4. How many dimensions are there in the data?
4. Note the use of the HTML select and option tags in the body of the file. What is the difference between the value of an option and the inner html of an option?
5. Look at the code that handles the click event for button 4. How are we determining the value of the option selected by the user?
6. Using the parameter named key, complete the displayData function. This function should use the value of key so that the user can control which data attribute (high temperature, low temperature, rainfall, etc. is written to the tag listOutput2.

On your own

1. Write the code necessary to make the function getMaxRainfall loop through the array and identify the highest rainfall value.
2. Write the code necessary to make the function getMinRainfall loop through the array and identify the lowest rainfall value.
3. Test your work. **There's a trickly little bug in the start file** that will cause some quirky behavior. **Buttons 2, 3, and 4 will only work after button 1 has been clicked at least once.** Weird, right? Find/fix the error and consider how this problem relates to scope and the order in which code is interpreted.
4. Publish your work. Be sure that you can find your work on the class server by typing in its URL in the browser. Test your work \*again\* on the class server.  
     
   For example:   
   <http://misdemo.temple.edu/tux99999/assignment17_climate>

**Continued…**

How will this assignment be graded?

* If your work is not found at the expected location on misdemo, you will get a score of **zero**.
* If your work does not generate any output, you will get a score of **zero**.
* If your work generates **all output** correctly, you will get a score of 100%.
* If your work generates **all but one output** correctly, you will get a score of 80%
* If your work generates **only one output** correctly, you will get a score of 40%
* All other assignments will receive a score of 60%.