04.01 Lab

1. Declare an array called **gems** and give it five items of your choice.

2. Log the entire array and also the first item.

3. Add 'sapphire' to the end of the array, using the index of the new item. If sapphire is already in the array, add another gem.

4. Add 'amethyst' to the end of the array using one of the array methods we have learned. If amethyst is already in the array, add some other gem.

5. Use an array method to put the gems in alphabetcial order.

6. Log the number of items of the array. The result should be 5.

7. Get the next-to-last gem, without deleting it from the array or hard-coding the index number. Save it to a variable and log it.

8. Use one array method to remove the last gem from the array, and then another array method to put the item right back in at the end. HINT: Save the removed gem to a new variable.

9. Given the 12 months: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec.

- Make a nested array called 'months', consisting of 4 items, each an array
- The child arrays have 3 items each, so Jan, Feb, Mar are in the first array. Using double-square brackets, log all months that start with 'J' and 'M'.

10. Given this list of numbers, 111, 23, 202, 12, 23, 1000, 2006, 1, 2, 14, 28, put them into an array called nums and then sort the array in descending order. HINT: You need to use an array method that takes a callback function.