

# Week 8 Lab - JavaScript DOM and Arrays

## Objective

After this lab, you should be able to:

- Use the JavaScript DOM to validate an HTML form
- Create and process arrays in JavaScript

## Instructions

### Step 1 - Download the lab file from BlackBoard.

Download the file called Week8Lab.zip. Inside, you will find two files: Week8Lab.html, and processForm.html. **Rename the file Week8Lab.html to Week8Lab\_FirstnameLastname.html**

### Step 2 - Change the form's action

Change the action of your form to processForm.html

### Step 3 - Create JavaScript to validate the form

The form provided is a basic order form for 'widgets'. The form accepts some personal information, item quantities, and a shipping method. Your task is to ensure that the user inputs the correct data. In particular:

- The firstName, lastName, address, city, province, and postalCode fields must all have a value.
- The postalCode field must be 6 digits long
- The quantity fields for the widgets must contain a number greater than or equal to zero
- At least one item must be ordered

The user must be notified of the errors in the form. I am going to allow for some creativity on your part on how this is to be done. The only requirement is that it is clear to the user which fields have errors, and what the errors are.

Finally, if the form submission is valid, display an alert to the user confirming the successful submission of their form, and inform them of the total price. If there are errors in the form, it should not submit.

#### **Step 4 - Add some style with CSS (BONUS MARKS)**

For up to 5 bonus marks, add some CSS styling to the otherwise lifeless form that I have given to you. CSS code must be error-free for bonus marks to be applied.

#### **Step 5 - Submit your lab**

Validate your HTML file with the HTML validator found at [validator.w3.org](https://validator.w3.org). Once validated, upload **both the Week5Lab\_FirstnameLastname.html and processForm.html** files to your webspace.

**The mark breakdown for this lab has been uploaded to BlackBoard under Week 8 -> Week 8 Lab. Please review the mark breakdown, so you know what I am looking for when I mark the labs.**