# Lab 5a: JavaScript intro

**IDE: You need to work with a local IDE like VScode for this lab.**

1. Download the provided starter code from Moodle.
2. Inspect the code that is provided. Notice the data that is in the data.js file.

In the following, never modify the data.js file.

1. Open the page with live server. Click on ctrl+shift+i to open the developer tools of chrome.
2. On the browser developer tools, open the “Sources” tab. Select the “lab05a.js” file then add a breakpoint on the first line and refresh the page. The debugger stops at the selected breakpoint.

A screenshot of a computer

Description automatically generated

1. In the debugger panel, expand the “Watch” element. Add two new expression in the watch list: document, and `${msg} there`. Refresh the page to check the watched expressions and move to the next instructions by using the right arrow of the debugger.
2. In the file lab05a.js, write code to create an array of objects by parsing the given data using JSON.parse. You can use arr.push() to add elements to the array. Add the array to the debugger watch list and check that your data is correctly parsed.
3. Create a constructor function (***Customer***) to create new objects with the same structure. Create two new objects using this constructor function. Add these two new objects to the array containing the objects loaded from the data file.

*Note: Arrow functions cannot be used as constructors*

1. Add an output function property that outputs a string representation for objects created using the Customer constructor.
2. Write a function that returns an array containing all the customers from a given city. Write some test code using console.log()
3. Add the same output function to the objects that were parsed from the data file.