

**COMP 306 – Fall 2018 – Assignment 02**  
**Due: Monday, 17 Sept, beginning of class**

**Problem:** I want to create an address book. In reality, the address book would be stored in a database on a server, but we're going to ignore this part. Instead, we'll just create a form that allows me to enter the items below for a person. I'll store all the information in my JavaScript code in an array of objects. Of course, when page is reloaded, I'll lose all of my addresses (see database earlier for the solution), but that's ok for this assignment.

Create a web page that contains a form that allows me to enter the following information:

First Name  
Last Name  
Email address  
Age

You must store the information for each person in an *object* named *Person*. Create the prototype for the object globally in a script in the *head* tag in the page (i.e., create the variable before the function). Store the objects in an array (also create the array variable globally).

Use a function to respond to a submission for the form and create an instance of a *Person* object in this function and add it to your array.

Include a button that will print all the names (first and last only; no other information) in alphabetic order by last name. Note that the names will not necessarily be entered in alphabetic order.

**Note:** see the class web site for a reference to a selection sort for JavaScript (Reference->JavaScript/ES6->Sorting in JavaScript). You only have to change one line of this code to get it to sort your array of *Person* objects. You must include both the *swap* function and the *selectionSort* function for the sort to work correctly.

Include a second button that will print all people of age 21 or older.

**Submission.** Submit your web page through Sakai.