JavaScript – PART B (Using Codecademy)

COGS₃
Log into your codecademy account using the username and password listed on TEd

- The goal of using Codecademy is to get practiced with working with JavaScript and to gain a better level of understanding of how to program.
- Use the username and password on TEd
- Logon to codecademy and go to the Language Skills section and select “JavaScript”
- Complete the JS problems using Codecademy
- Then, use the following pieces of code as EXAMPLES of how to integrate JavaScript into HTML.

www.codecademy.com/
Language Skills

Learn core programming concepts and syntax for the world’s most popular languages.

Continue with this course:

- HTML & CSS
- JavaScript
- jQuery
- PHP
- Python
- Ruby

Codecademy
UNIT 6: DATA STRUCTURES

Lesson: Arrays and Objects in JS
In this course, we’ll cover some of the more powerful features of JavaScript in greater detail. We’ll review arrays, create arrays of arrays, and begin learning about a new data structure: objects.

Lesson: Contact List
With arrays and objects, we can create a contact list / phone book with ease.
## Part B: Complete Codecademy Lessons 16-28

<table>
<thead>
<tr>
<th>Lesson #</th>
<th>Section</th>
<th>Objectives</th>
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</table>
| 16       | Arrays and Objects           | - Review arrays and practice looping through elements of arrays;     
|          |                              | - Recognize a heterogeneous, two dimensional and jagged arrays.  
| 17       |                              | Creating and editing objects.                                                                                                             |
| 18       | Contact List                 | - Synthesis Create objects within objects with various types of properties. Implement a for/in loop                                       |
| 19       | Introduction to Objects - I  | - Review data types; comparator arrays, functions and switch statements. Methods and custom method constructors.  
<p>| 20       |                              | Passing objects to functions.                                                                                                             |
| 21       |                              |                                                                                                                                           |
| 22       |                              |                                                                                                                                           |
| 23       | Build an Address Book        | - Synthesis: Create and store objects in arrays; create functions to access properties of objects; create a loop to call a property for all objects in the array. |</p>
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<tbody>
<tr>
<td>24</td>
<td>Introduction to Objects II</td>
<td>Review literal and constructor notation for object and methods. Review ‘this’ keyword and ‘hasOwnProperty’ keyword; for/in loop bracket notation. Understand public and private properties, inheritance and prototype;</td>
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<tr>
<td>28</td>
<td>Building a Cash Register</td>
<td>Synthesis: Practice custom constructors, calling methods in an object and recognize that method can be used to call another method. Add functionality to methods that allow the void of transactions and quantities of products.</td>
</tr>
</tbody>
</table>
Your assignment: Part i

- Part (i):
  Complete Lesson 18 on codecademy
  Use the “Contact List” to write an interactive HTML page.
- Create a directory called JS within your public directory on the server.
  File name: cg3xzzJScontactList.html
  (note: there are NO hyphens in the filename.)
Your assignment: Part ii

- Part ii:
  Complete lesson 23 on Codecademy
  Use the “Build An Address Book” to write an interactive HTML page.
  Publish it in your JS directory inside public directory on the server.
  File name: cg3xzzJSAddressBook.html
  (note: there are NO hyphens in the filename.)
Your assignment: Part iii

- Part iii:
  Complete lesson 28 on Codecademy
  Use the “Building a Cash Register” to write an interactive HTML page.
  Publish it in your JS directory inside public directory on the server.
  File name: cg3xzzJScashRegister.html
  (note: there are NO hyphens in the filename.)
Your assignment:

Create a front page for all of the JS assignments and link the files on one single page.

- File name: cg3xzzJSallPartB.html (note: there are NO hyphens in the filename.)
- Save this file in public (not in JS!!)
- Make sure all of your links have the appropriate referencing.
- Styling your page will result in extra credit!