

# Lab 3 Instructions, Selection, Group A

## CS 133JS, Beginning Programming: JavaScript

### Overview

The objective of this lab is to give you practice using:

- if, else-if, else statements.
- Comparison operators.
- switch case statements.
- Logical operators.

### Part 1: Exercises

Do the exercises in the [CS133JS Lab03 Part1 election Exercises](#) document.

### Part 2: Web Pages

For each of these pages:

- Put the code that does processing or calculations in a function in a .js file.
- Use `prompt` functions in a script element in the web page to get user input.
- Use `getElementById` and `innerHTML` to show output on the web page.

#### I. Age Calculator

Create a web page that calculates a user's age. The page will prompt the user to enter:

- a. The year they were born (a number).
- b. Whether they have had a birthday yet (yes/no).

The user's age in years will be shown on the web page.

#### II. Kindergarten Admission Age

Create a web page that a parent can use to see if their child can start kindergarten. The page will prompt for:

- The child's age (a number).
- Whether their birthday was before August 1st (yes or no).

If they are five, and their birthday was before August 1st, they can start kindergarten. Take the birthday into account as well as the age. On the web page show one of the following:

- Start kindergarten
- Too young
- Too old

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### III. Elementary School Grade Level

Create a web page that determines what grade an elementary school student should be in based on their age and birthdate. The page will prompt for:

- The child's age as of August 1<sup>st</sup> (a number).

Use a switch case statement to determine the student's grade level. On the web page show one of the following:

- |                |                |
|----------------|----------------|
| • Kindergarten | • Fourth grade |
| • First grade  | • Fifth grade  |
| • Second grade | • Too young    |
| • Third grade  | • Too old      |

### **Submitting your lab work on Moodle**

#### Beta Version

Post the following in the *Lab Beta forum*:

1. The web pages you created for part 2.  
(Zip the files for you web pages and attach them to the post.)
2. A code review of your lab partner's web page for part 2.  
(Review one of your lab partners' web pages using the Code Review Form provided.)

#### Code Review

1. Submit a copy of the code review above to the *Lab Code Review assignment*.

#### Production Version

Based on the review and helpful advice from your lab partner, you may revise your web page. On the code review from your lab partner, complete the "Production" column to show what you revised. Upload the following to the *Lab Production Version* assignment:

1. A Word document containing all the code you ran for part 1.
2. The web pages you created for part 2.
3. The code review from your lab partner with the "Prod" column filled in by you.