

## COMP 9782 Programming Fundamentals

### Lab-4-1 - JavaScript fundamental hands-on exercises. (8% of the course mark)

Name:

Student Number:

The JavaScript Fundamentals Lab is a hands-on workshop designed to provide participants with a foundational understanding of JavaScript programming. Through practical exercises, participants will learn key concepts, syntax, and best practices in JavaScript, enabling them to build interactive and dynamic web applications.

#### Lab objectives:

1. Familiarize participants with the fundamental syntax and data types in JavaScript.
2. Understand variables, data structures, and basic operations.
3. Learn how to use conditional statements (if-else) for decision-making.
4. Gain proficiency in loop structures (for, while) for repetitive tasks.

#### Lab Prerequisite:

1. **Download** and **extract** the **Lab-4-1.zip** file from **D2L**.
2. **Navigate** to the **directory** where the **files** were **extracted**.
3. Enter the **developer name** as well as the **purpose** on each **HTML, CSS, and JavaScript** file used in this lab.

#### Variables

1. Navigate to **./assets/js** and open **01Variables.js**.
2. Perform the tasks listed.
3. Place the JavaScript code underneath each task.
4. Test your code by loading the browser console and refreshing HTML.

## Arithmetic

1. Navigate to `./assets/js` and open **02Arithmetic.js**.
2. Perform the tasks listed.
3. Place the JavaScript code underneath each task.
4. Test your code by loading the browser console and refreshing HTML.

## Conditionals

1. Navigate to `./assets/js` and open **03Conditionals.js**.
2. Perform the tasks listed.
3. Place the JavaScript code underneath each task.
4. Test your code by loading the browser console and refreshing HTML.

## Loops

1. Navigate to `./assets/js` and open **04Loops.js**.
2. Perform the tasks listed.
3. Place the JavaScript code underneath each task.
4. Test your code by loading the browser console and refreshing HTML.