

CSI 3140 - Summer 2025 LAB 3: Introduction to JavaScript

Due Date: Monday Jun 9th at 11:59PM EST

Compress all your files and upload the Zip file to the Brightspace. Please name the file using the following format: CSI3140_Lab_<lab_number>_<student_id_1>_<student_id_2>.zip

In this lab, you will create a simple interactive calculator that performs basic arithmetic operations (+, -, *, /) using prompt() and alert() methods.

Instructions:

Create a simple HTML page (lab3.html) with the following elements:

- A <title> in the <head>
- A main heading (<h1>) with the page title
- In the <style> section or a separate CSS file:
 - Use -webkit-text- to create an outlined effect on the <h1>:

```
-webkit-text-stroke: 1px black;
-webkit-text-fill-color: white;
```

Add styles for the .description class to make the text appear in two columns

```
.description{
  column-count: 2;
  column-gap: 40px;
}
```

Define the .calculator-icon class

```
.calculator-icon {
  width: 100px;
  position: absolute;
  top: 20px;
  left: 20px;
  animation: floatAround 20s ease-in-out infinite;
}
```



- In the <body> section:
 - Add a <div> element with the description class. Inside this <div>, add two elements: one with a summary of the page and another with your name and student number.
 - Animate a calculator icon using @keyframes rule so that it moves while fading in/out using opacity. The animation should run automatically on page load and loops continuously. Apply this animation to an tag with class
 .calculator-icon
 - Link the JavaScript file to your HTML: <script src="script.js"></script>

Create a JavaScript file (script.js) with the following functionalities:

- 1. Ask the user how many calculations to perform using the prompt () method.
- 2. Use a while loop and a counter (with ++) to repeat the process for that many calculations.
 - o Prompt the user for:
 - 1. Two numbers (use parseFloat() to convert to numbers)
 - 2. One operator (+, -, *, /)
 - O Use nested if-else statements to:
 - Perform the correct operation
 - Handle division by zero
 - Handle invalid operator input
 - Handle invalid number input
 - o Display each result using alert () method.
- 3. After the loop ends, show a final message with the total number of completed calculations.



Example:

Zaumpie.	
This page says	
How many calculations would you like	ke to perform?
1	
	Cancel OK
This was a second	
This page says Calculation 1 of 1	
Calculation 1 of 1	
	ОК
This name arm	
This page says Enter the first number:	
5	
	Cancel
This page says	
This page says Enter an operator (+, -, *, /):	
	Cancel OK
	Cancel OK
Enter an operator (+, -, *, /): +	Cancel OK
Enter an operator (+, -, *, /): + This page says	Cancel OK
This page says Enter the second number:	Cancel OK
Enter an operator (+, -, *, /): + This page says	Cancel OK
This page says Enter the second number:	
This page says Enter the second number:	Cancel OK
This page says Enter the second number:	
This page says Enter the second number:	
This page says Enter the second number:	
Enter an operator (+, -, *, /): + This page says Enter the second number: 7 This page says	Cancel OK
Enter an operator (+, -, *, /): + This page says Enter the second number: 7 This page says	





Your webpage should look something like this:

