

JavaScript Calculator Exercise v1

Type: Independent or Pair

Exercise Duration: 1/2 day

Exercise Instructions:

For this exercise, you will use HTML and JavaScript to construct a basic calculator. The calculator should have two input boxes to submit operands. It should have a button for each of the operations that will be performed. Clicking on one of these buttons will perform the operation on the input in the input boxes.

Create a git repository under your cycle's group with the name: <yourname>-jscalculator

Requirements:

1. All event listeners should be attached inside a `window.onload()` event.
2. No global variables are used.
3. Must have 2 input boxes for operands
4. Must have a button for each operation
5. Once an operation is clicked, display the results.
6. Must allow for addition, subtraction, multiplication and division of two numbers.
7. Should not allow division by zero. Display a message that says "Error: Cannot divide by 0"
8. Must use functions to organize the program.

Stretch Requirements:

1. Provide input validation on the input fields
2. Implement a memory feature where the result of a calculation can be stored and then recalled to use as input for another operation.
3. Add the ability to raise a number to a power.
4. Add the ability to calculate the square root of a number.