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HTML5 code for Mathematical Operator

2. JAVASCRIPT code for Mathematical Operator

```
■ assignment02.html U X JS day4loops.js A JS 418.js A
   ⑤ assignment02.html > ⋘ html
           <html lang="en":
                 <div class="calculatorM24W0272">
                           function performCalculation(operator, x, y) {
    return Math.sqrt(X);
    case "log": // for logarithm
    if (x <= 0) {
                                           return Math.log(x);
                                x = parseFloat(prompt("Enter the first number:"));
} while (!isValidNumber(x));
                                // For operations that require two inputs
if (operator !== "sqrt" && operator !== "log") {
                                      y = parseFloat(prompt("Enter the second number:"));
} while (!isValidNumber(y));
                                      let result = performCalculation(operator, x, v);
                                           ⑤ assignment02.html U X JS day4loops.js A
5 assignment02.html > ♦ html
       <html lang="en":</pre>
            <div class="calculatorM24W0272">
                            x = parseFloat(prompt("Enter the first number:"));
} while (!isValidNumber(x));
                            // For operations that require two inputs
if (operator !== "sqrt" && operator !== "log") {
                                       y = parseFloat(prompt("Enter the second number:"));
                                  } while (!isValidNumber(y));
                                 // Display result on the web page
document.getElementById('result-containerM24W0272').innerHTML = `Result: ${result}`;
                             } catch (error) {
alert("Error: " + error.message); //display error if something goes wrong,
```

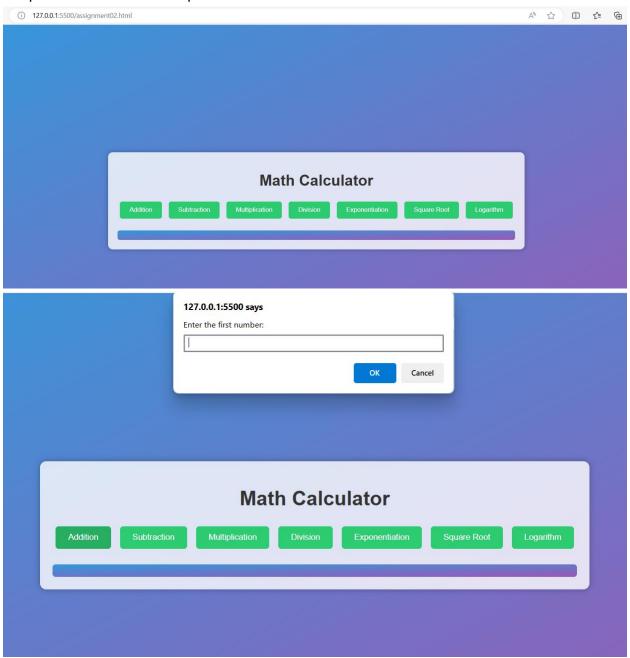
3. CSS for Mathematical Operator

```
th III

    assignment02.html > 
    html

                         font-family: Arial, sans-serif;
background: linear-gradient(to bottom right, ■#3498db, ■#9b59b6);
                         margin: 0;
padding: 0;
display: flex;
                         justify-content: center;
align-items: center;
height: 100vh;
                   /* Calculator container styles */
.calculatorM24W0272 {
background-color: ■rgba(255, 255, 255, 0.8);
                         border-radius: 10px;
box-shadow: 0 0 10px □rgba(0, 0, 0, 0.3);
                         padding: 20px;
text-align: center;
                         color: 🗆 #333;
                         padding: 10px 20px;
                         margin: 5px;
background-color: ■#2ecc71;
color: ■#fff;
                         border: none;
border-radius: 5px;
                                                  ■ assignment02.html U X JS day4loops.js A
color: □#333;
                          padding: 10px 20px;
                          margin: 5px;
background-color: ■#2ecc71;
color: ■#fff;
                           border: none;
                           cursor: pointer;
transition: background-color 0.3s;
                     button:hover {
   background-color: ■#27ae60;
                        margin-top: 20px;
padding: 10px;
                          border-radius: 5px;
background: linear-gradient(to bottom right, ■#3498db, ■#9b59b6);
color: ■#fff;
```

4. Output for Mathematical Operator.





5. Showing error while condition is not matched.

