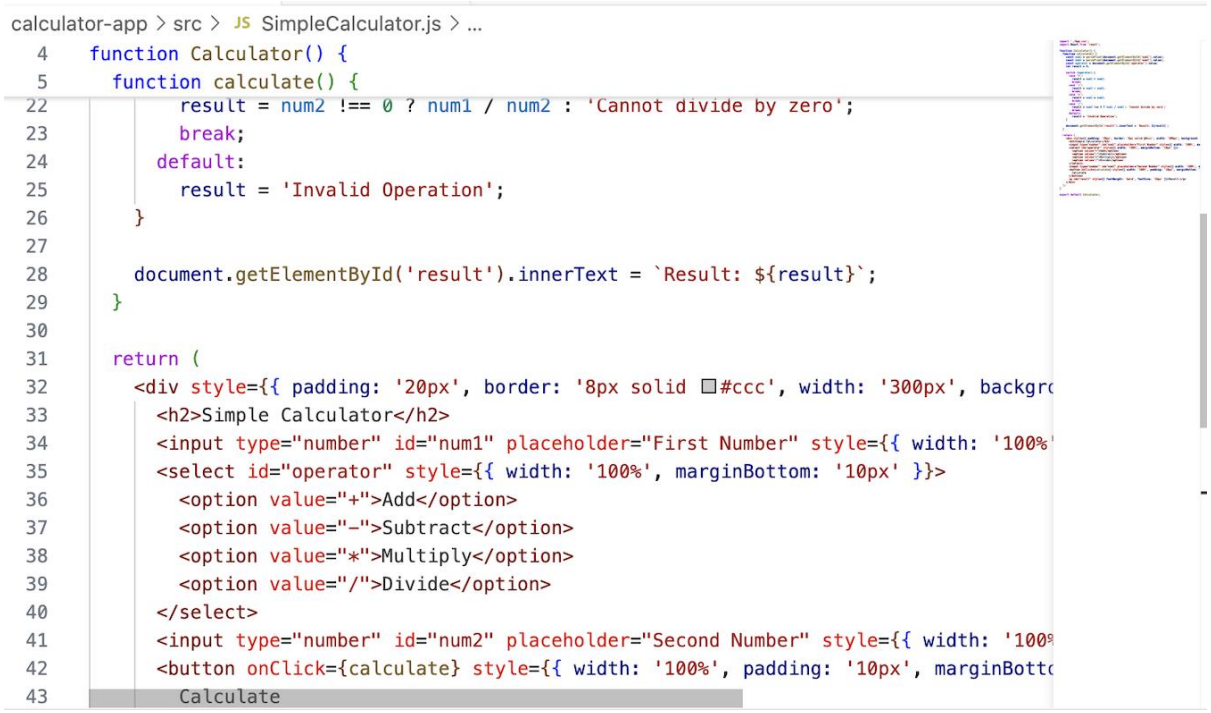
WEEK-6

Name=Jyoti kumal

Student Id =2801665

Screenshots



```
calculator-app > src > JS SimpleCalculator.js > ...
  4   function Calculator() {
  5     function calculate() {
 22         result = num2 !== 0 ? num1 / num2 : 'Cannot divide by zero';
 23         break;
 24       default:
 25         result = 'Invalid Operation';
 26     }
 27
 28     document.getElementById('result').innerText = `Result: ${result}`;
 29   }
 30
 31   return (
 32     <div style={{ padding: '20px', border: '8px solid #ccc', width: '300px', backgrc
 33       <h2>Simple Calculator</h2>
 34       <input type="number" id="num1" placeholder="First Number" style={{ width: '100%'
 35       <select id="operator" style={{ width: '100%', marginBottom: '10px' }}>
 36         <option value="+">Add</option>
 37         <option value="-">Subtract</option>
 38         <option value="*">Multiply</option>
 39         <option value="/">Divide</option>
 40       </select>
 41       <input type="number" id="num2" placeholder="Second Number" style={{ width: '100%
 42       <button onClick={calculate} style={{ width: '100%', padding: '10px', marginBottc
 43         Calculate
```

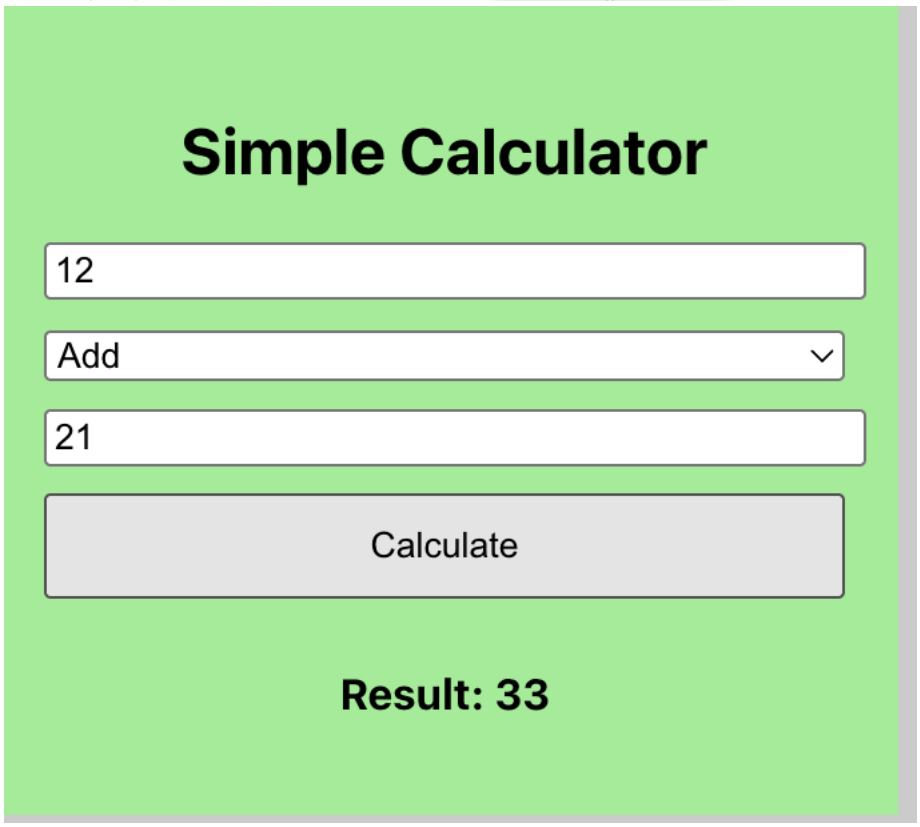
```
calculator-app
node_modules
public
src
  App.css
  App.js
  App.test.js
  index.css
  index.js
  logo.svg
  reportWebVitals.js
  setupTests.js
  SimpleCalculator.js
.gitignore
package-lock.json
package.json
README.md
week-5
```

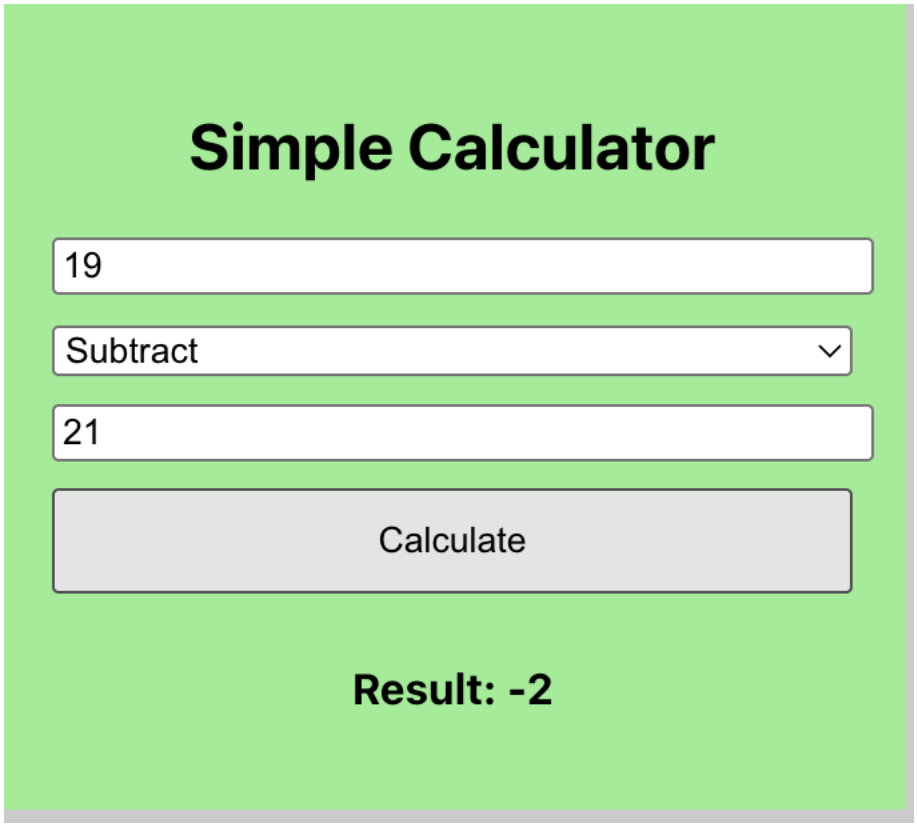
```
1   import './App.css';
2   import React from 'react';
3
4   function Calculator() {
5     function calculate() {
6       const num1 = parseFloat(document.getElementById('num1').value);
7       const num2 = parseFloat(document.getElementById('num2').value);
8       const operator = document.getElementById('operator').value;
9       let result = 0;
10
11      switch (operator) {
12        case '+':
13          result = num1 + num2;
14          break;
15        case '-':
16          result = num1 - num2;
17          break;
18        case '*':
19          result = num1 * num2;
20          break;
21        case '/':
22          result = num2 !== 0 ? num1 / num2 : 'Cannot divide by zero';
```

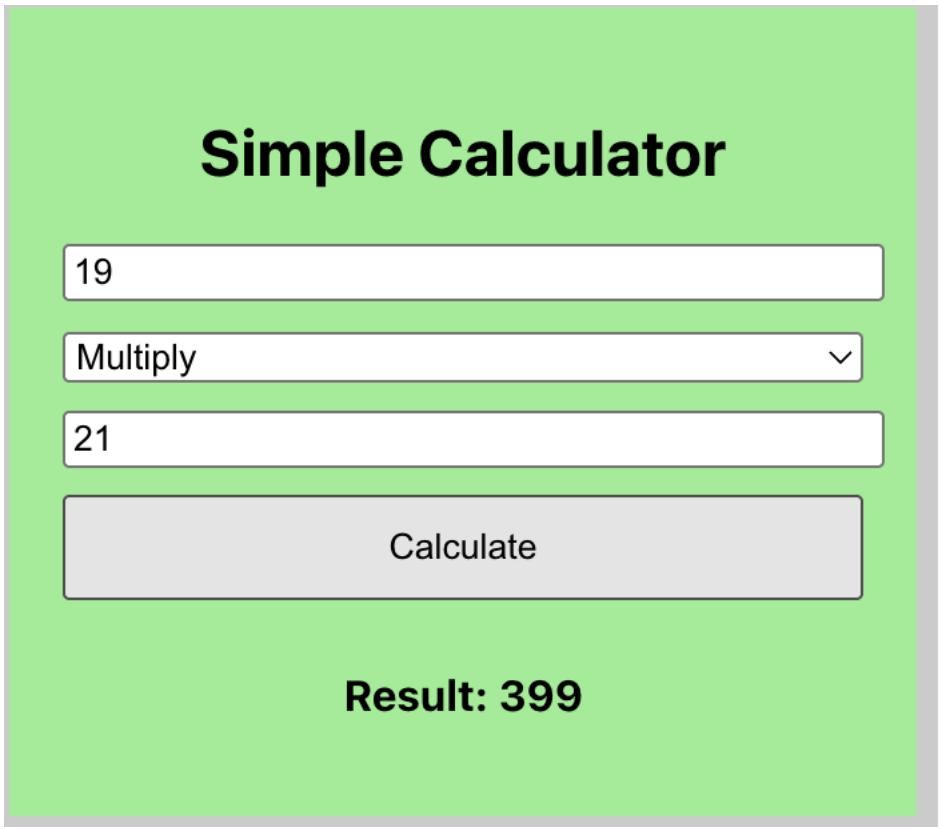
calculator-app > src > JS SimpleCalculator.js > ...

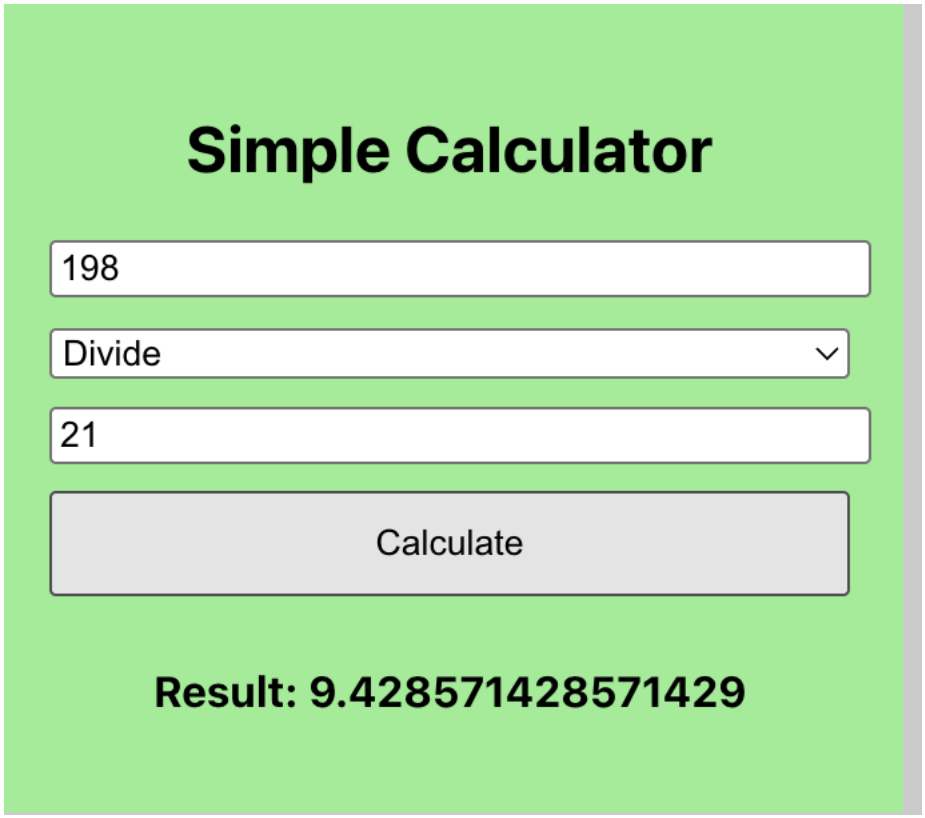
```
4   function Calculator() {
5     function calculate() {
23          break;
24        default:
25          result = 'Invalid Operation';
26      }
27
28      document.getElementById('result').innerText = `Result: ${result}`;
29    }
30
31    return (
32      <div style={{ padding: '20px', border: '8px solid #ccc', width: '300px', backgrc
33        <h2>Simple Calculator</h2>
34        <input type="number" id="num1" placeholder="First Number" style={{ width: '100%'
35        <select id="operator" style={{ width: '100%', marginBottom: '10px' }}>
36          <option value="+">Add</option>
37          <option value="-">Subtract</option>
38          <option value="*">Multiply</option>
39          <option value="/">Divide</option>
40        </select>
41        <input type="number" id="num2" placeholder="Second Number" style={{ width: '100%
42        <button onClick={calculate} style={{ width: '100%', padding: '10px', marginBottc
43          Calculate
44        </button>
```

Ports - 1 forwarded port




Simple Calculator
19
Subtract
21
Calculate
Result: -2


Simple Calculator
19
Multiply
21
Calculate
Result: 399



calculator-app > src > JS index.js > ...

```
1   import React from 'react';
2   import ReactDOM from 'react-dom/client';
3   import './index.css';
4   import Calculator from './SimpleCalculator';
5
6   const root = ReactDOM.createRoot(document.getElementById('root'));
7   root.render(
8     <React.StrictMode>
9       <Calculator />
10    </React.StrictMode>
11  );
12
13
```

Short explanation how the code works

The calculator is built using Calculator, a helpful React component. This component uses a function called calculate() to perform all arithmetic operations. When the user enters two numbers and selects an operator, the calculate() function uses document to retrieve the values.getElementById and converts them to numbers using parseFloat. After confirming which operator (+, −, ×, or ÷) was chosen, a switch statement performs

the required computation. The result is then displayed on the screen by updating the text inside the <p> element with the id result.