Program No:	**17**
Roll No:	**1525**
Title:	**Build a Calculator using Hooks**
Objectives:	**Making a calculator**

SOURCE CODE:

App.js

```
import React from
'react';
import logo from './logo.svg';
import './App.css';
import Greet from './components/Greet';
import Message from './components/Message';
import Counter from './components/Counter';
import { Form } from './components/Form';
import Calculator from './components/Calculator';
function App() {
 return (
  <div className="App">
   {/* <Message/> */}
   {/* <Counter/> */}
    <Calculator/>

  </div>
 );
}

export default App;
```

App.css

```
.App {
 align-items: center;
 text-align: center;
```

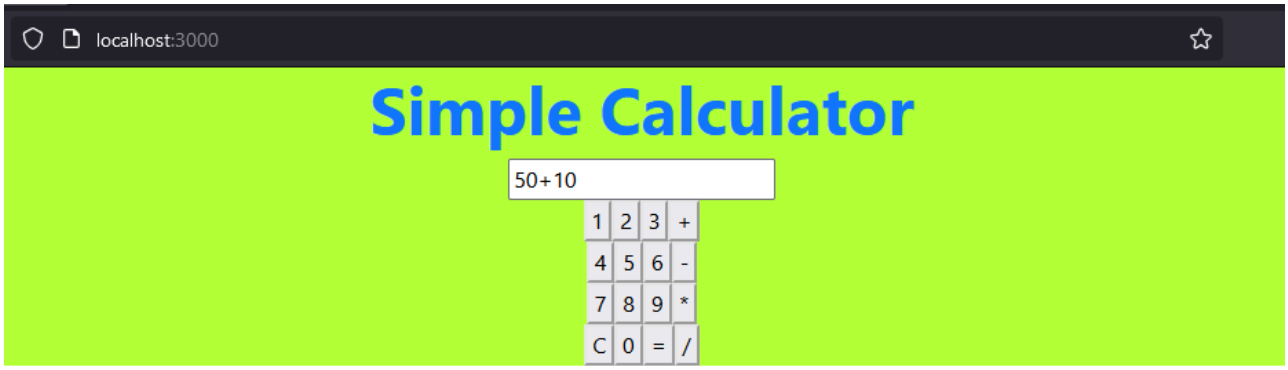
```
  background-color: greenyellow;

  color: brown;
}


.App-logo {
  height: 40vmin;
  pointer-events: none;
}

@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
  }
}

.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}

.App-link {
  color: #61dafb;
}

@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}
```

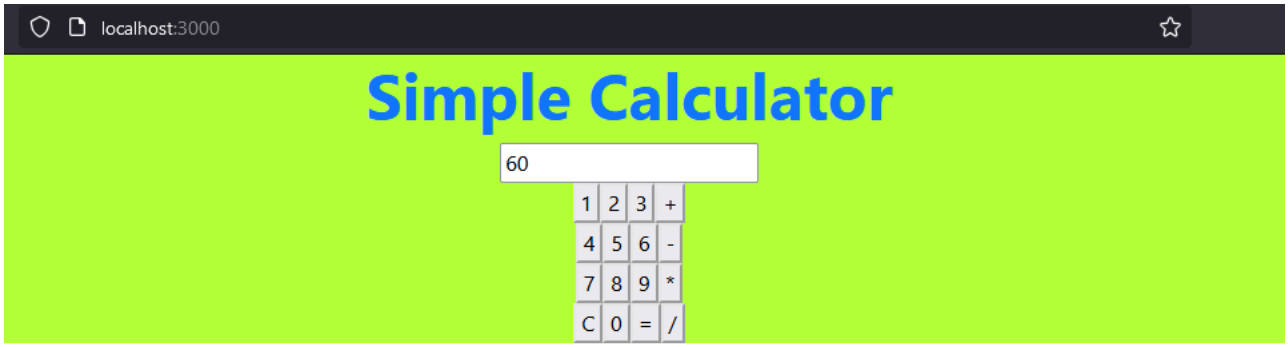
Calculator.js

```
import React, { useState } from

'react';

function Calculator() {
  const [val, setVal] = useState("");

  return (
    <div className='container'>
      <div className='row'>
        <div className='col-12'>
          <h1 className='display-5 fw-bolder text-primary'>Simple Calculator</h1>
        </div>
      </div>
      <div>
        <input type='text' value={val} readOnly />
      </div>
      <div>
        <button className='button' value="1" onClick={(e) => setVal(val +
e.target.value)}>1</button>
        <button className='button' value="2" onClick={(e) => setVal(val +
e.target.value)}>2</button>
        <button className='button' value="3" onClick={(e) => setVal(val +
e.target.value)}>3</button>
        <button className='button' value="+" onClick={(e) => setVal(val +
e.target.value)}>+</button>
      </div>
      <div>
        <button className='button' value="4" onClick={(e) => setVal(val +
e.target.value)}>4</button>
        <button className='button' value="5" onClick={(e) => setVal(val +
e.target.value)}>5</button>
        <button className='button' value="6" onClick={(e) => setVal(val +
e.target.value)}>6</button>
        <button className='button' value="-" onClick={(e) => setVal(val +
e.target.value)}>-</button>
      </div>
      <div>
        <button className='button' value="7" onClick={(e) => setVal(val +
e.target.value)}>7</button>
        <button className='button' value="8" onClick={(e) => setVal(val +
e.target.value)}>8</button>
        <button className='button' value="9" onClick={(e) => setVal(val +
e.target.value)}>9</button>
```

```
        <button className='button' value="*" onClick={(e) => setVal(val + e.target.value)}>*</button>
      </div>
      <div>
        <button className='button' onClick={() => setVal("")}>C</button>
        <button className='button' value="0" onClick={(e) => setVal(val + e.target.value)}>0</button>
        <button className='button' onClick={() => {
          try {
            const result = new Function('return ' + val)();
            setVal(result.toString());
          } catch (error) {
            setVal("Error");
          }
        }}>=</button>
        <button className='button' value="/" onClick={(e) => setVal(val + e.target.value)}>/</button>
      </div>
    </div>
  );
}

export default Calculator;
```

OUTPUT:


localhost:3000
Simple Calculator
50+10
1 2 3 +
4 5 6 -
7 8 9 *
C 0 = /


localhost:3000
Simple Calculator
60
1 2 3 +
4 5 6 -
7 8 9 *
C 0 = /