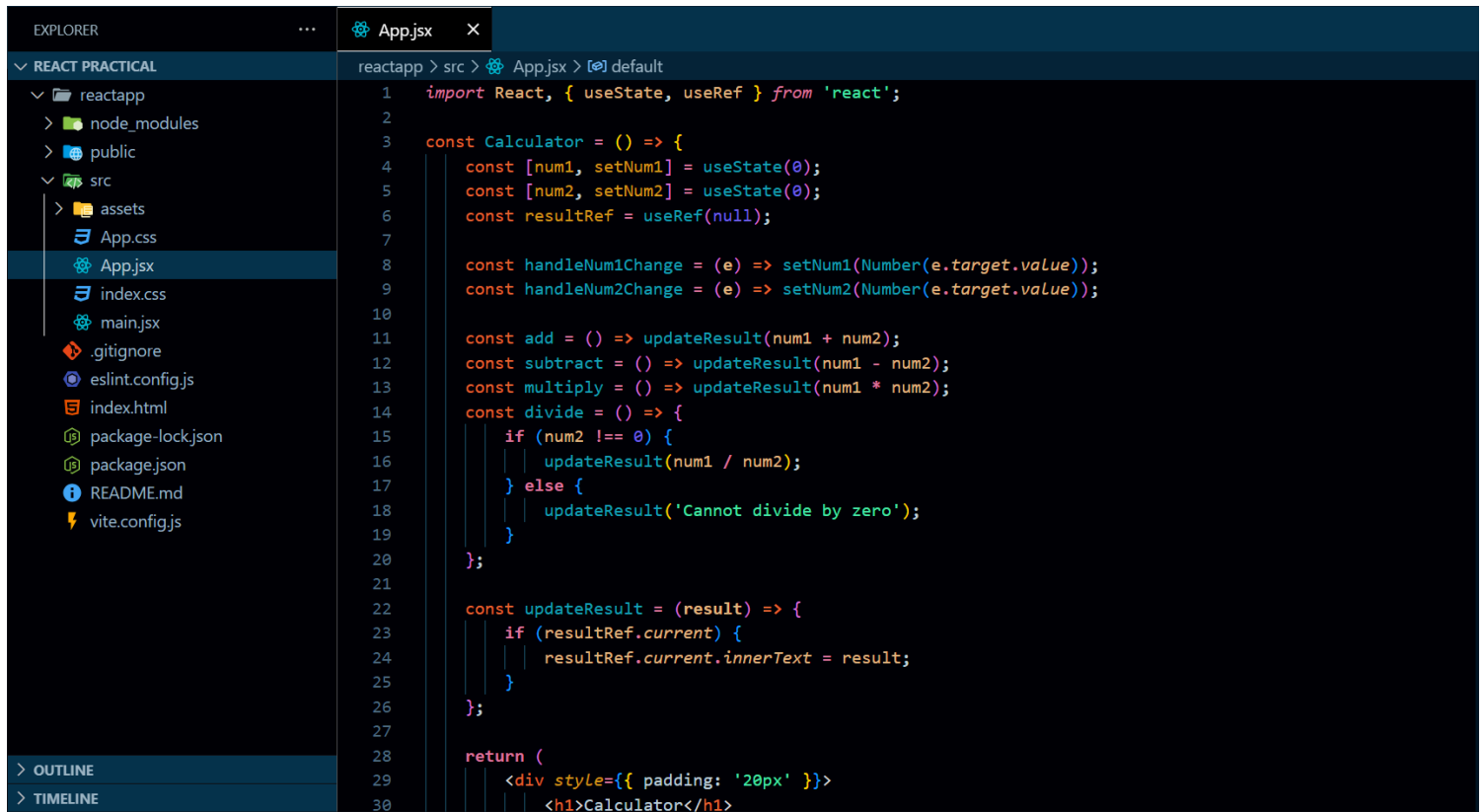


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Batch: A

## IP Practical Exam (Batch A)

**Aim:** To create a calculator app in react and make use of different hooks.

**Code:**



The image shows a VS Code editor with a React application structure on the left and the App.jsx code on the right.

**EXPLORER**

- REACT PRACTICAL
  - reactapp
    - node\_modules
    - public
    - src
      - assets
      - App.css
      - App.jsx
      - index.css
      - main.jsx
      - .gitignore
      - eslint.config.js
      - index.html
      - package-lock.json
      - package.json
      - README.md
      - vite.config.js
- OUTLINE
- TIMELINE

**App.jsx**

```
1  import React, { useState, useRef } from 'react';
2
3  const Calculator = () => {
4    const [num1, setNum1] = useState(0);
5    const [num2, setNum2] = useState(0);
6    const resultRef = useRef(null);
7
8    const handleNum1Change = (e) => setNum1(Number(e.target.value));
9    const handleNum2Change = (e) => setNum2(Number(e.target.value));
10
11    const add = () => updateResult(num1 + num2);
12    const subtract = () => updateResult(num1 - num2);
13    const multiply = () => updateResult(num1 * num2);
14    const divide = () => {
15      if (num2 !== 0) {
16        updateResult(num1 / num2);
17      } else {
18        updateResult('Cannot divide by zero');
19      }
20    };
21
22    const updateResult = (result) => {
23      if (resultRef.current) {
24        resultRef.current.innerText = result;
25      }
26    };
27
28    return (
29      <div style={{ padding: '20px' }}>
30        <h1>Calculator</h1>
```

EXPLORER

reactapp

reactapp

node\_modules

public

src

assets

App.css

App.jsx

index.css

main.jsx

.gitignore

eslint.config.js

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package-lock.json

package.json

README.md

vite.config.js

OUTLINE

TIMELINE

App.jsx

reactapp > src > App.jsx > default

```
3  const Calculator = () => {
26  };
27
28  return (
29    <div style={{ padding: '20px' }}>
30      <h1>Calculator</h1>
31      <input
32        type="number"
33        onChange={handleNum1Change}
34        placeholder="First Number"
35      />
36      <br />
37      <input
38        type="number"
39        onChange={handleNum2Change}
40        placeholder="Second Number"
41      />
42      <div style={{ margin: '10px 0' }}>
43        <button onClick={add}>Add</button>
44        <button onClick={subtract}>Subtract</button>
45        <button onClick={multiply}>Multiply</button>
46        <button onClick={divide}>Divide</button>
47      </div>
48      <h2 ref={resultRef}>Result: 0</h2>
49    </div>
50  );
51  };
52
53  export default Calculator;
```

Screenshot:

# Calculator

Add

Subtract

Multiply

Divide

5

# Calculator

Add

Subtract

Multiply

Divide

28

# Calculator

Add

Subtract

Multiply

Divide

**128**

# Calculator

Add

Subtract

Multiply

Divide

**8**