

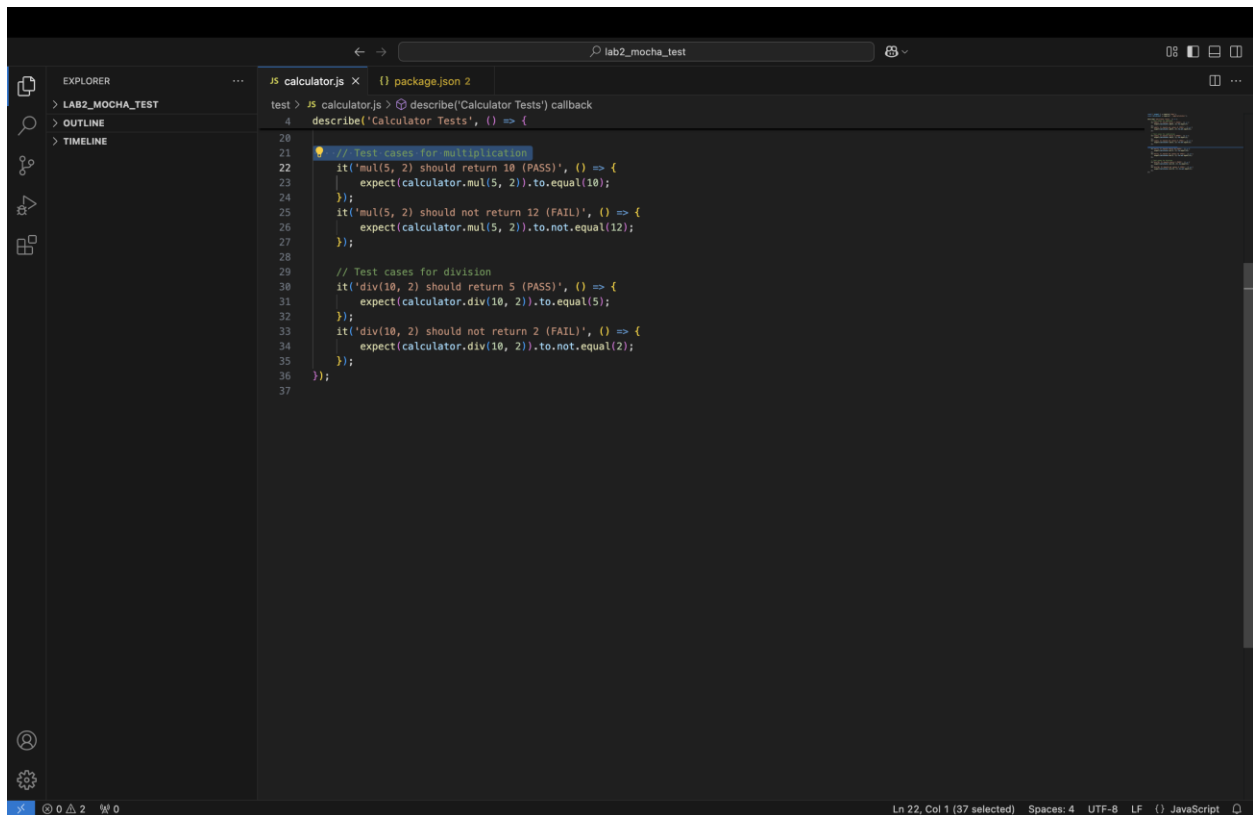
```
shirinali@Shirins-MBP ~ % cd /Users/shirinali/Desktop/School-2025/Computer/ Programming/Fullstack/ Dev/Labs/lab2_mocha_test
shirinali@Shirins-MBP lab2_mocha_test % npm test

> lab2_mocha_test@1.0.0 test
> mocha

Calculator Tests
  ✓ add(5, 2) should return 7 (PASS)
  ✓ add(5, 2) should not return 8 (FAIL)
  ✓ sub(5, 2) should return 3 (PASS)
  ✓ sub(5, 2) should not return 5 (FAIL)
  ✓ mul(5, 2) should return 10 (PASS)
  ✓ mul(5, 2) should not return 12 (FAIL)
  ✓ div(10, 2) should return 5 (PASS)
  ✓ div(10, 2) should not return 2 (FAIL)

8 passing (3ms)

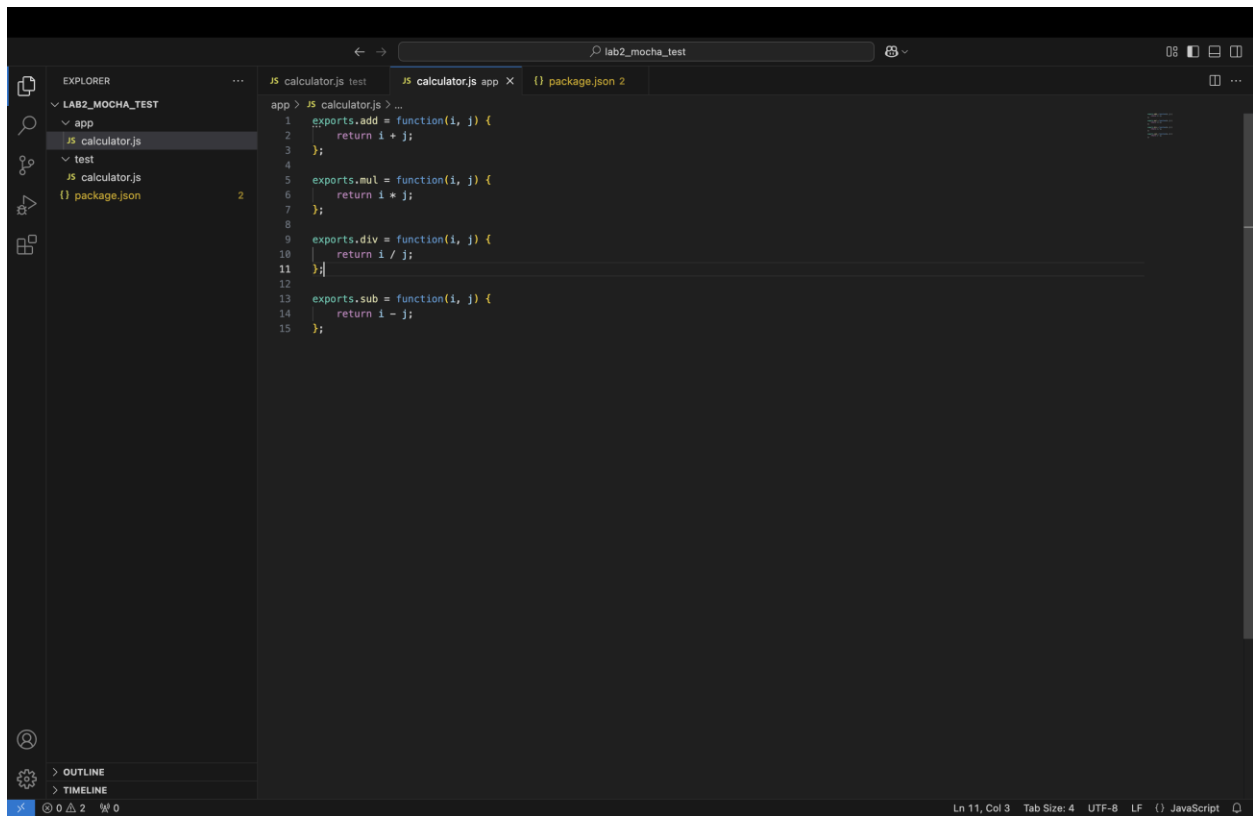
shirinali@Shirins-MBP lab2_mocha_test %
```



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays a project named 'LAB2\_MOCHA\_TEST'. The main editor area is open to a file named 'calculator.js'. The code in the editor is as follows:

```
test > $S calculator.js > describe('Calculator Tests') callback
4 describe('Calculator Tests', () => {
20
21 // Test cases for multiplication
22 it('mul(5, 2) should return 10 (PASS)', () => {
23   expect(calculator.mul(5, 2)).to.equal(10);
24 });
25 it('mul(5, 2) should not return 12 (FAIL)', () => {
26   expect(calculator.mul(5, 2)).to.not.equal(12);
27 });
28
29 // Test cases for division
30 it('div(10, 2) should return 5 (PASS)', () => {
31   expect(calculator.div(10, 2)).to.equal(5);
32 });
33 it('div(10, 2) should not return 2 (FAIL)', () => {
34   expect(calculator.div(10, 2)).to.not.equal(2);
35 });
36 });
37
```

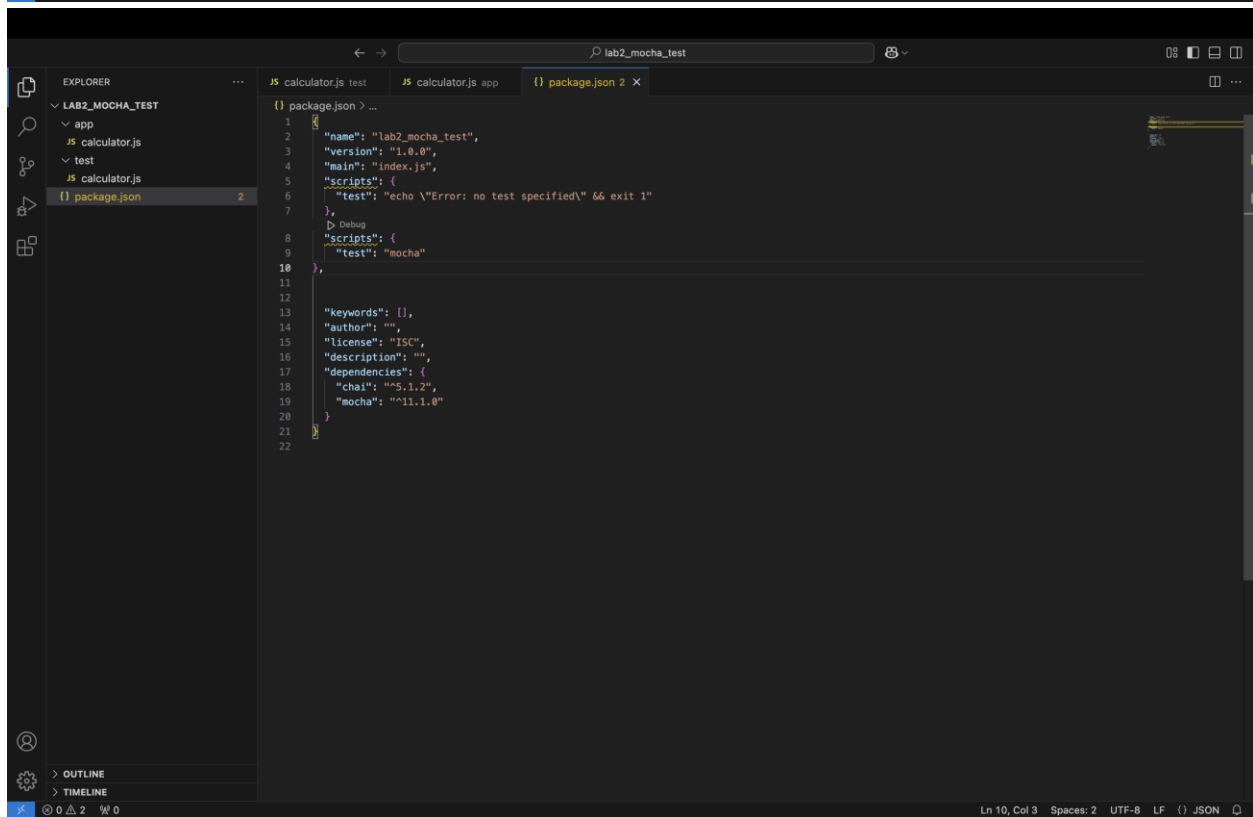
The status bar at the bottom indicates the current cursor position is at line 22, column 1, with 37 characters selected. The encoding is UTF-8, and the language is JavaScript.



The image shows a VS Code editor window with the Explorer sidebar on the left. The Explorer sidebar shows a project named 'LAB2\_MOCHA\_TEST' with a folder 'app' containing 'calculator.js' and a folder 'test' containing 'calculator.js' and 'package.json'. The main editor area shows the 'calculator.js' file in the 'app' folder. The file contains the following code:

```
app > .\calculator.js > ...
1  exports.add = function(i, j) {
2    return i + j;
3  };
4
5  exports.mul = function(i, j) {
6    return i * j;
7  };
8
9  exports.div = function(i, j) {
10   return i / j;
11 };
12
13 exports.sub = function(i, j) {
14   return i - j;
15 };
```

The status bar at the bottom indicates 'Ln 11, Col 3', 'Tab Size: 4', 'UTF-8', 'LF', and 'JavaScript'.



The image shows a VS Code editor window with the Explorer sidebar on the left. The Explorer sidebar shows a project named 'LAB2\_MOCHA\_TEST' with a folder 'app' containing 'calculator.js' and a folder 'test' containing 'calculator.js' and 'package.json'. The main editor area shows the 'package.json' file in the 'test' folder. The file contains the following code:

```
{
  "name": "lab2_mocha_test",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "devDependencies": {
    "mocha": "5.1.2"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "description": ""
}
```

The status bar at the bottom indicates 'Ln 10, Col 3', 'Spaces: 2', 'UTF-8', 'LF', and 'JSON'.