

Lab 2 Comp 3133

Test 1:

```
Run `npm audit` for details.
(base) Oscars-MacBook-Air-2:app oscarpiedrasantadiaz$ npm test

> app@1.0.0 test
> mocha

Calculator Tests
  add()
    ✓ 5 + 2 should return 7 (PASS)
    1) 5 + 2 should NOT return 8 (FAIL)
  sub()
    ✓ 5 - 2 should return 3 (PASS)
    2) 5 - 2 should NOT return 5 (FAIL)
  mul()
    ✓ 5 * 2 should return 10 (PASS)
    3) 5 * 2 should NOT return 12 (FAIL)
  div()
    ✓ 10 / 2 should return 5 (PASS)
    4) 10 / 2 should NOT return 2 (FAIL)

4 passing (8ms)
4 failing

1) Calculator Tests
   add()
     5 + 2 should NOT return 8 (FAIL):

      AssertionError: expected 7 to equal 8
      + expected - actual
      -7
      +8

      at Context.<anonymous> (test/calculator.js:12:34)
      at processImmediate (node:internal/timers:466:21)
```

Test 2:

```
at processImmediate (node:internal/timers:466:21)

2) Calculator Tests
   sub()
     5 - 2 should NOT return 5 (FAIL):

      AssertionError: expected 3 to equal 5
      + expected - actual
      -3
      +5

      at Context.<anonymous> (test/calculator.js:23:34)
      at processImmediate (node:internal/timers:466:21)
```

Test 3:

```
3) Calculator Tests
  mul()
    5 * 2 should NOT return 12 (FAIL):

    AssertionError: expected 10 to equal 12
    + expected - actual
    -10
    +12

    at Context.<anonymous> (test/calculator.js:34:34)
    at processImmediate (node:internal/timers:466:21)
```

Test 4:

```
4) Calculator Tests
  div()
    10 / 2 should NOT return 2 (FAIL):

    AssertionError: expected 5 to equal 2
    + expected - actual
    -5
    +2

    at Context.<anonymous> (test/calculator.js:45:35)
    at processImmediate (node:internal/timers:466:21)
```

Ide Test Results:

✖ Test Results	2 ms	✖ Tests failed: 4, passed: 4 of 8 tests – 2 ms
✖ Calculator Tests	2 ms	
✖ add()	1 ms	
✓ 5 + 2 should return 0 ms		
✖ 5 + 2 should NOT	1 ms	
✖ sub()	0 ms	
✓ 5 - 2 should return 0 ms		
✖ 5 - 2 should NOT	0 ms	
✖ mul()	0 ms	
✓ 5 * 2 should return 0 ms		
✖ 5 * 2 should NOT	0 ms	
✖ div()	1 ms	
✓ 10 / 2 should return 1 ms		
✖ 10 / 2 should NOT	0 ms	

Source Code:

```

1  const { expect : ExpectStatic } = require('chai');
2  const { add, sub, mul, div } = require('../calculator');
3
4  describe( title: 'Calculator Tests', fn: function() :void {
5      // ADDITION TESTS
6      describe( title: 'add()', fn: function() :void {
7          it( title: '5 + 2 should return 7 (PASS)', fn: function() :void {
8              expect(add( i: 5, j: 2)).to.equal( value: 7);
9          });
10
11         it( title: '5 + 2 should NOT return 8 (FAIL)', fn: function() :void {
12             expect(add( i: 5, j: 2)).to.equal( value: 8); // This test will intentionally fail
13         });
14     });
15
16     // SUBTRACTION TESTS
17     describe( title: 'sub()', fn: function() :void {
18         it( title: '5 - 2 should return 3 (PASS)', fn: function() :void {
19             expect(sub( i: 5, j: 2)).to.equal( value: 3);
20         });
21
22         it( title: '5 - 2 should NOT return 5 (FAIL)', fn: function() :void {
23             expect(sub( i: 5, j: 2)).to.equal( value: 5); // This test will intentionally fail
24         });
25     });
26
27     // MULTIPLICATION TESTS
28     describe( title: 'mul()', fn: function() :void {
29         it( title: '5 * 2 should return 10 (PASS)', fn: function() :void {
30             expect(mul( i: 5, j: 2)).to.equal( value: 10);

```

Source Code:

```

31     });
32
33     it( title: '5 * 2 should NOT return 12 (FAIL)', fn: function() :void {
34         expect(mul( i: 5, j: 2)).to.equal( value: 12); // This test will intentionally fail
35     });
36 });
37
38 // DIVISION TESTS
39 describe( title: 'div()', fn: function() :void {
40     it( title: '10 / 2 should return 5 (PASS)', fn: function() :void {
41         expect(div( i: 10, j: 2)).to.equal( value: 5);
42     });
43
44     it( title: '10 / 2 should NOT return 2 (FAIL)', fn: function() :void {
45         expect(div( i: 10, j: 2)).to.equal( value: 2); // This test will intentionally fail
46     });
47 });
48 });

```