Simple Calculator Lab solution

Code


```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Simple Adder</title>
</head>

<body>
    <form action="/calculate" method="post">
        <div>Enter two numbers:
            <br>
            <input type="number" name="first" step="0.01" size="5" required />
            <select name="operations" id="operations">
                <option value="add">+</option>
                <option value="subtract">-</option>
                <option value="multiply">*</option>
                <option value="divide">/</option>
            </select>
            <input type="number" name="second" step="0.01" size="5" maxlength="5" required />

            <input type="submit" value="Calculate" />
        </div>

    </form>
</body>

</html>
```
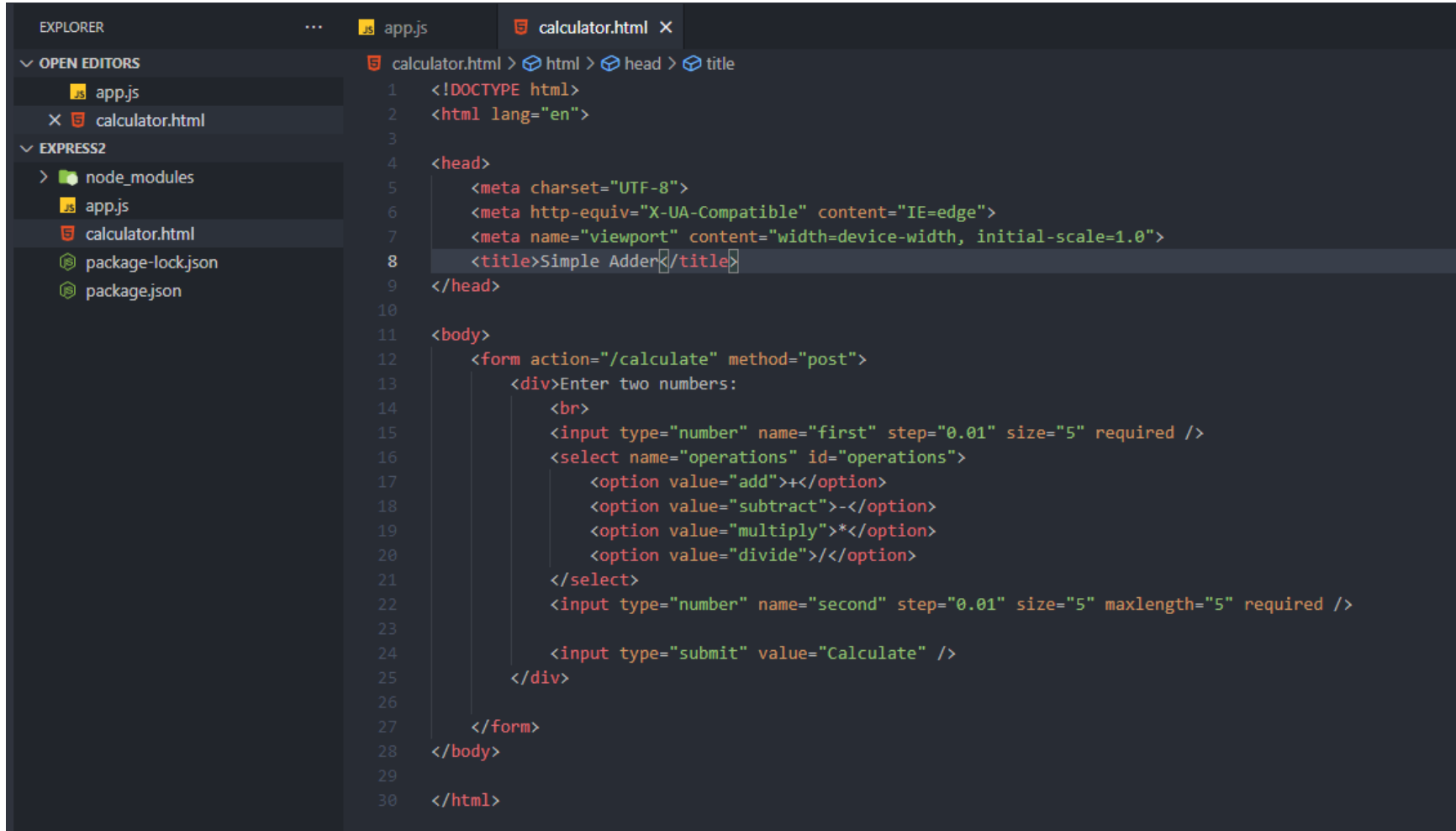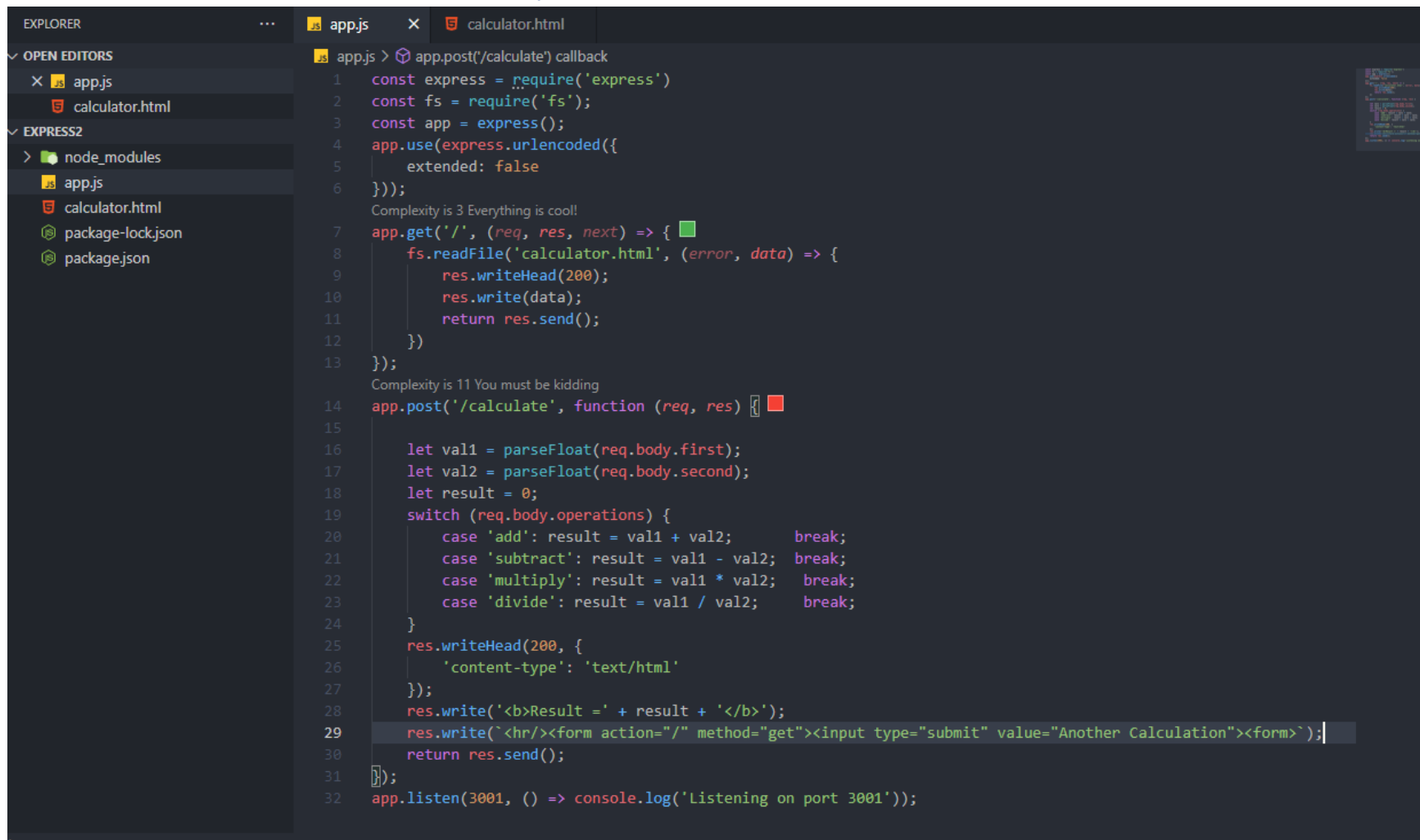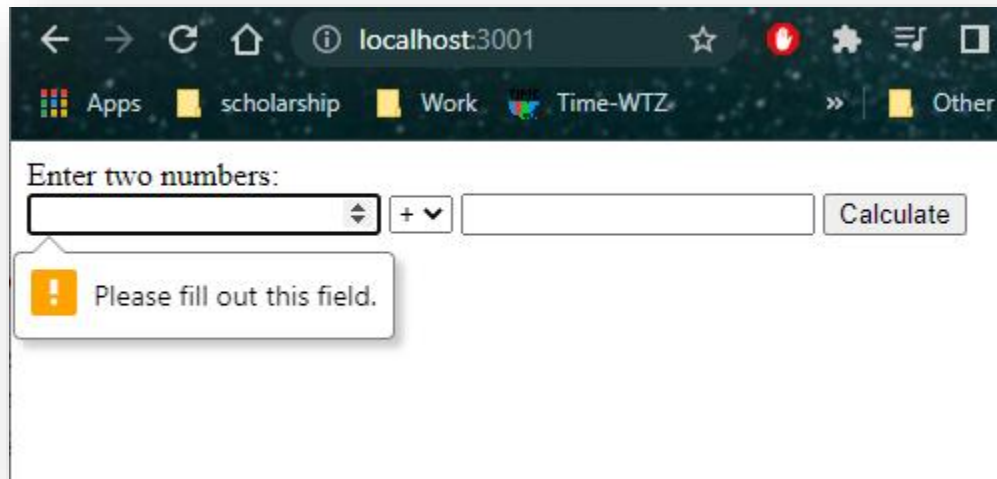
Figure 1 : Calculator.html

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```javascript
const express = require('express')
const fs = require('fs');
const app = express();
app.use(express.urlencoded({
    extended: false
}));
// Complexity is 3 Everything is cool!
app.get('/', (req, res, next) => {
    fs.readFile('calculator.html', (error, data) => {
        res.writeHead(200);
        res.write(data);
        return res.send();
    })
});
// Complexity is 11 You must be kidding
app.post('/calculate', function (req, res) {

    let val1 = parseFloat(req.body.first);
    let val2 = parseFloat(req.body.second);
    let result = 0;
    switch (req.body.operations) {
        case 'add': result = val1 + val2;       break;
        case 'subtract': result = val1 - val2;  break;
        case 'multiply': result = val1 * val2;  break;
        case 'divide': result = val1 / val2;    break;
    }
    res.writeHead(200, {
        'content-type': 'text/html'
    });
    res.write('<b>Result =' + result + '</b>');
    res.write(`<hr/><form action="/" method="get"><input type="submit" value="Another Calculation"><form>`);
    return res.send();
});
app.listen(3001, () => console.log('Listening on port 3001'));
```
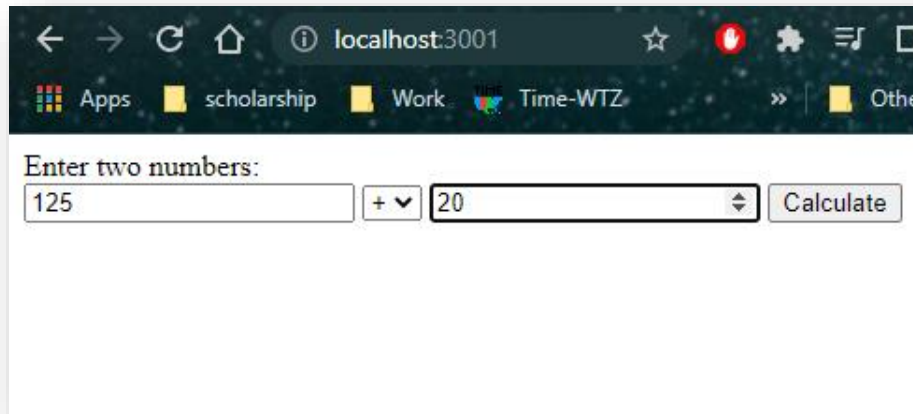
Figure 2 : app.js

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Screenshots

Figure 3 : Calculator Home

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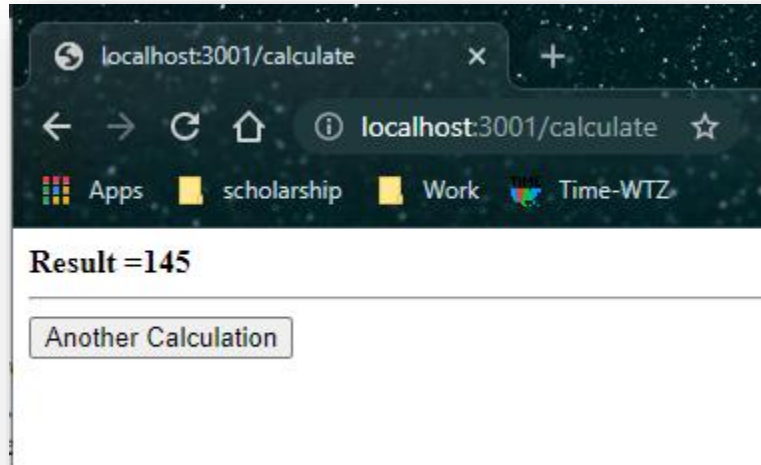
Figure 4: Sample 01: Addition
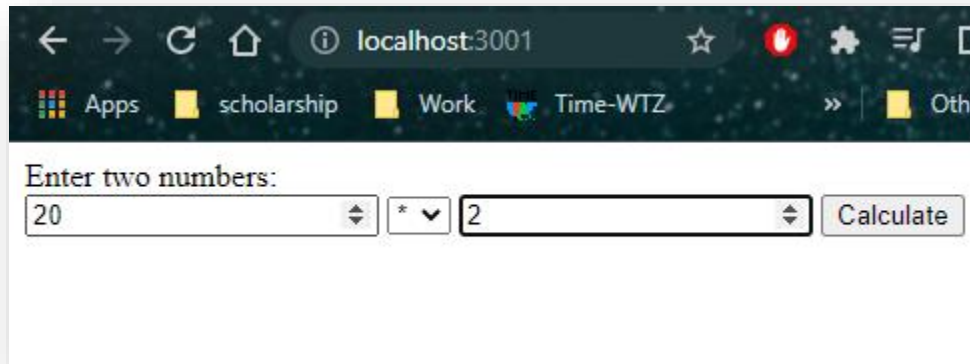
Figure 5 : Addition Result
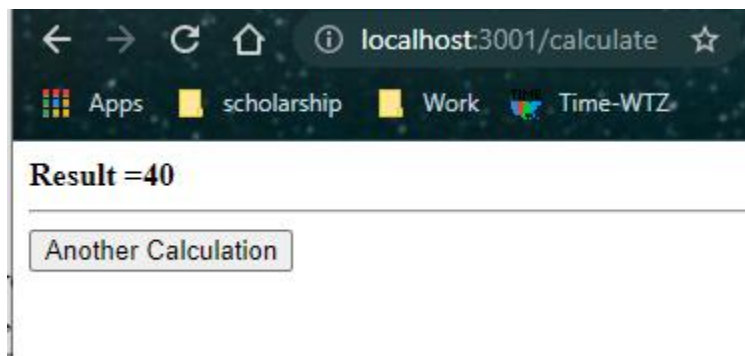
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Figure 6: Sample input: Multiplication

Figure 7 : Sample output :Multiplication