

Simple Calculator

SimpleCalculator.js

```
const express = require('express');
const bodyParser = require('body-parser');
const path = require('path');

const app = express();
const port = 4000;
const urlencodedParser = express.urlencoded({ extended: false })
app.use(express.static('./public'));

app.get('/', (req, res) => {
    res.sendFile(path.resolve(__dirname, 'calculator.html'))
});

app.post('/calculate',urlencodedParser, (req, res) => {
    let result = 0;
    const number1=parseFloat(req.body.number1);
    const number2=parseFloat(req.body.number2);
    const operator=req.body.operator;

    if(operator==='/'){
        result=number1/number2;
    }
    else if(operator==='*'){
        result=number1*number2;
    }
    else if(operator==='-'){
        result=number1-number2;
    }
    else if(operator==='+'){
        result=number1+number2;
    }
    res.send(`<!DOCTYPE html>
<html lang="en">

<head>
    <title>Simple Calculator Result</title>
    <meta charset="utf-8" />
    <link href="calc.css" type="text/css" rel="stylesheet" />
</head>

<body>
    <div class="container">
```

```

        <fieldset>
            <h1>Answer is :</h1>
            <h3>${result}</h3>
            <p><a href="/"> Back to calculator </a></p>
        </fieldset>
    </div>
</body>

</html>` );
});

app.listen(port, () => {
    console.log(`listening on port ${port}!`)
});

```

Calculator.html

```

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

<head>
    <title>Simple Calculator</title>
    <meta charset="utf-8" />
    <link href="/calc.css" type="text/css" rel="stylesheet" />
</head>

<body>
<div class="container">
    <header>
        <h1>Simple Calculator</h1>
    </header>
    <fieldset>
        <legend>Calculate:</legend>
        <form class="form" action="/calculate" method="POST">
            <div class="form-body">
                <label for="number1" class="form-label">Number1:</label>
                <input type="number" id="number1" name="number1" class="form-input" maxlength="16" step="0.01">
            </div>
            <div class="form-body">
                <label for="number2" class="form-label">Number2:</label>
                <input type="number" id="number2" name="number2" class="form-input" maxlength="16" step="0.01">
            </div>
        </form>
    </fieldset>
</div>

```

```
<div class="form-body">
    <span class="form-label">Operation:</span>
    <select id="operator" name="operator">
        <option value="/" selected>
            /
        </option>
        <option value="*">
            x
        </option>
        <option value="-">
            -
        </option>
        <option value="+">
            +
        </option>
    </select>
</div>

<div class="form-body">
    <span class="form-label"></span>
    <input type="submit" value="Calculate">
</div>
</form>
</fieldset>

</div>
</body>
</html>
```

Result

A screenshot of a web browser window titled "localhost:4000". The address bar shows the URL. Below the address bar is a navigation bar with links to various websites like Apps, Contact - Compute..., Facebook, OpenJDK, index | TIOBE - The..., AdoptOpenJDK - O..., and Date (Java SE 16 &...). The main content area displays the title "Simple Calculator" and a form for calculating the product of two numbers. The form includes fields for "Number1" (with value 23.4), "Number2" (with value 2), and "Operation" (set to "x"). A "Calculate" button is present.

Simple Calculator

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A screenshot of a web browser window titled "localhost:4000/calculate". The address bar shows the URL. Below the address bar is a navigation bar with links to various websites like Apps, Contact - Compute..., Facebook, OpenJDK, index | TIOBE - The..., AdoptOpenJDK - O..., and Date (Java SE 16 &...). The main content area displays the title "Answer is :" and the result "46.8". Below the result is a link "Back to calculator".

Answer is :

46.8

[Back to calculator](#)

