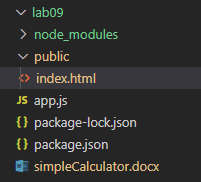
**SIMPLE CALCULATOR**

// Program Structure



// package.json

{

  "name": "lab09",

  "version": "1.0.0",

  "description": "Simple Calculator",

  "main": "app.js",

  "scripts": {

    "start": "nodemon ./app.js",

    "test": "echo \"Error: no test specified\" && exit 1"

  },

  "author": "Berhanu",

  "license": "ISC",

  "dependencies": {

    "express": "^4.17.1"

  }

}

//index.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 Calculator</title>

  <style>

    body {

      font-family: 'Lucida Sans', Verdana, sans-serif;

      font-size: 14px;

    }

    .container {

      width: 400px;

      margin: 20px;

    }

    fieldset{

      padding: 20px 20px 30px;

    }

    select {

      margin-right: 15px;

    }

    h1 {

      text-align: center;

    }

  </style>

</head>

<body>

  <div class="container">

    <h1>Simple Calculator</h1>

    <form id="calc-form" action="http://localhost:3000/calculate.js">

      <fieldset>

        <legend>Enter Two Numbers and Select Operation</legend>

        <input type="text" name="num1" required/><br><br>

        <input type="text" name="num2" required/><br><br>

        <select name="calculate">

          <option value="add">Add</option>

          <option value="subtract">Subtract</option>

          <option value="multiply">Multiply</option>

          <option value="divide">Divide By</option>

        </select>

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

      </fieldset>

    </form>

  </div>

</body>

</html>

// app.js

const express = require("express");

const app = express();

const port = process.env.PORT || 3000;

app.use(express.json());

app.use(express.urlencoded({ extended: true }));

app.use(express.static("./public"));

app.get("/calculate.js", (req, res) => {

  let operation = req.query.calculate;

  let num1 = parseFloat(req.query.num1);

  let num2 = parseFloat(req.query.num2);

  let result;

  if (isNaN(num1) || isNaN(num2)) {

    return res.redirect("/");

  } else if (operation === "add") {

    result = num1 + num2;

  } else if (operation === "subtract") {

    result = num1 - num2;

  } else if (operation === "multiply") {

    result = num1 \* num2;

  } else if (operation === "divide") {

    result = num1 / num2;

  } else {

    return res.redirect("/");

  }

  res.send(

    `The Answer is: ${result} <br/><br/>

    <div><a href="${req.protocol}://${req.hostname}:${port}">Another calculation</div>`

  );

});

app.get("/\*", (req, res) => {

  res.redirect("/");

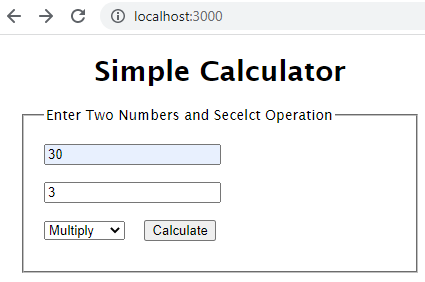
});

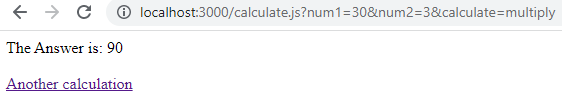
app.listen(port, () => {

  console.log(`Listening on port ${port} ...`);

});

// Sample Output





**Note**: that on clicking the ‘Another calculation’ link, it goes to <http://localhost:3000/>. Also, note that invalid inputs like non-numeric inputs are also handled properly.