

## Simple Calculator Lab - using the node.js Express Framework

```
//Calculator.html
```

```
<html>

<head>
  <title>Simple Calculator Using Express Framework</title>
</head>

<body>
  <form method="POST" action="/">
    <div>
      <h3> Simple Calculator using Node js and Express </h3>
      Please Enter two numbers and select an operation <br>
      <input type="text" name="first" /><br />
      <input type="text" name="second" /><br />
      <select name="oprtr">
        <option value="+ "> + (Addition)</option>
        <option value="- "> - (Subtraction)</option>
        <option value="*" > * (Multiplication)</option>
        <option value="/" > / (Division)</option>
      </select>
      <br>
      <input type="submit" value="Calculate" />

    </div>
  </form>
</body>

</html>
```

```
//calculator.js
```

```
const express = require('express')
const bodyparser = require('body-parser')
const { userInfo } = require('os')
const app = express()

app.use(bodyparser.urlencoded({ extended: true }))

app.get('/', (req, res) => {
  res.sendFile(__dirname + "/calculator.html")
})

app.post('/', (req, res) => {
  const num1 = parseInt(req.body.first);
  const num2 = parseInt(req.body.second);
  const opr = req.body.oprtr;

  switch (opr) {
    case '+':
      res.send("The Result is : " + (num1 + num2));
      break;
    case '-':
      res.send("The Result is : " + (num1 - num2));
      break;
    case '*':
      res.send("The Result is : " + (num1 * num2));
      break;
    case '/':
      res.send("The Result is : " + (num1 / num2));
      break;
    default:
      break;
  }
})

app.listen(3000, (res) => {
  console.log('Successfully started express application!')
})
```

// Output

CS472: V X | Calculat: X | Simple C X | Pow

localhost:3000

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### Simple Calculator using Node js and Express

Please Enter two numbers and select an operation

38

55

+ (Addition) ▾

Calculate

CS472: V X | Calculat: X | localhost: X | Pow

localhost:3000

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The Result is : 93

CS472: V X | Calculat: X | Simple C X | Pow

localhost:3000

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### Simple Calculator using Node js and Express

Please Enter two numbers and select an operation

8

5

- (Subtraction) ▾

Calculate

CS472: V X | Calculat: X | localhost: X | Pow

localhost:3000

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The Result is : 3

CS472: V X | Calculat: X | Simple C X | Pow

localhost:3000

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### Simple Calculator using Node js and Express

Please Enter two numbers and select an operation

12

10

\* (Multiplication) ▾

Calculate

CS472: V X | Calculat: X | localhost: X | Pow

localhost:3000

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The Result is : 120

CS472: V X | Calculat: X | Simple C X | Pow

localhost:3000

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### Simple Calculator using Node js and Express

Please Enter two numbers and select an operation

12

10

/ (Division) ▾

Calculate

CS472: V X | Calculat: X | localhost: X | Pow

localhost:3000

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The Result is : 1.2