

Simple Calculator Lab

The image displays a web browser on the left and a code editor on the right, illustrating a simple calculator application.

Web Browser (Left): The browser shows the URL `localhost:8080`. The page title is "Simple Calculator". The form contains two input fields for numbers, a dropdown menu for the operation, and a "Click" button. The results show the following calculations:

- First Number: 5, Second Number: 2, Operation: Addition, Answer: 7
- First Number: 8, Second Number: 2, Operation: Multiplication, Answer: 16
- First Number: 8, Second Number: 2, Operation: Subtraction, Answer: 6
- First Number: 8, Second Number: 2, Operation: Division, Answer: 4

Code Editor (Right): The editor shows the `AdderWebServer.js` file. The code implements a simple calculator using Node.js and Express.js. It defines a `multiply` function and a `GET` route for `/addmod.js` that calculates the result based on the query parameters and returns an HTML response.

```
25     case "multiply":
26       result = parseFloat(req.query.first) * parseFloat(req.query.second);
27       break;
28     }
29   }
30   res.writeHead(200, {'Content-Type': 'text/html'});
31   res.write('<DOCTYPE html>');
32   res.write('<html>');
33   res.write('<head><meta charset="utf-8">');
34   res.write('<title>Simple Calculator</title>');
35   res.write('</head>');
36   res.write('<body>');
37   res.write('<p>The answer is: ${String(result)}</p>');
38   res.write('<a href="http://localhost:8080/">Home</a>');
39   res.write('</body>');
40   res.write('</html>');
41   return res.end();
42 }
43 }
```

The terminal output shows the server running on port 8080 and the command `node AdderWebServer` being executed multiple times.