

## Lesson 04 Demo 11

### Working with Functions

**Objective:** To implement and verify JavaScript functions for mathematical operations and temperature conversion

**Tools required:** Visual studio code

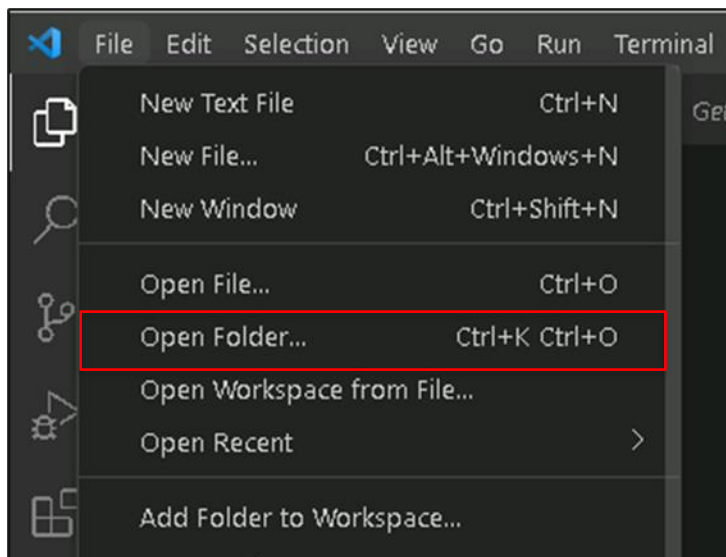
**Prerequisites:** Basic understanding of functions in JavaScript, ensure folder named **src** for saving the file

Steps to be followed:

1. Create and execute the file

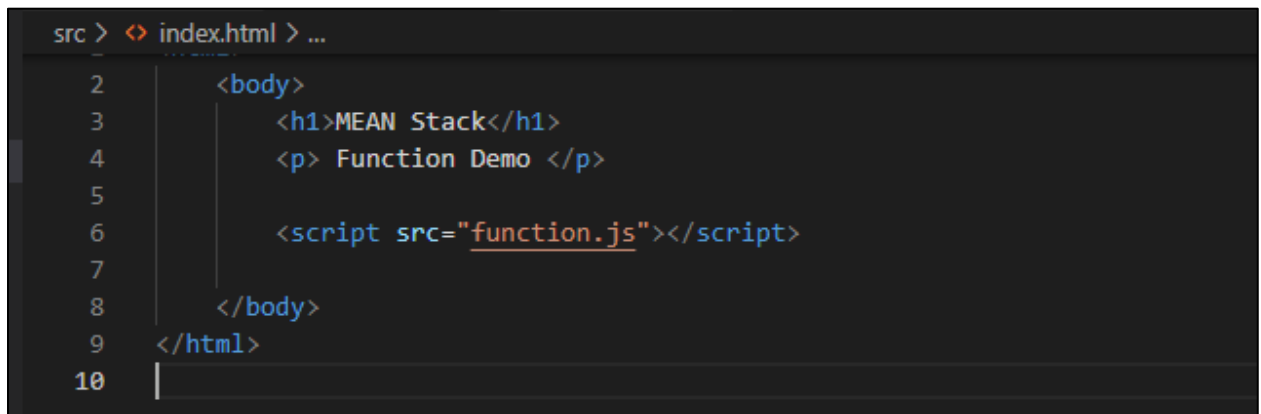
#### Step 1: Create and execute the file

- 1.1 Open Visual Studio Code and right click on the **File** menu of the code editor and select the **Open Folder** option



- 1.2 Select **src** folder of the project and select the **New File** icon and enter the filename as **index.html** and add the following code to the **index.html** file:

```
<html>
  <body>
    <h1>MEAN Stack</h1>
    <p> Function Demo </p>
    <script src="function.js"></script>
  </body>
</html>
```

A screenshot of a code editor with a dark theme. The file path 'src > index.html > ...' is visible at the top. The code content is as follows:

```
2   <body>
3     <h1>MEAN Stack</h1>
4     <p> Function Demo </p>
5
6     <script src="function.js"></script>
7
8   </body>
9 </html>
10
```

- 1.3 Right click on the **src** folder of the project, select **New File** option and enter the filename as **function.js** and add the following code:

```
var x = (2 * 3) + 5;
var y = 3 * 4;
var result = myFunction(2, 3);
console.log(result);

function myFunction(num1, num2) {
  var a = num1 * num2;
  var b = num1 + num2;
  return (a + b);
}

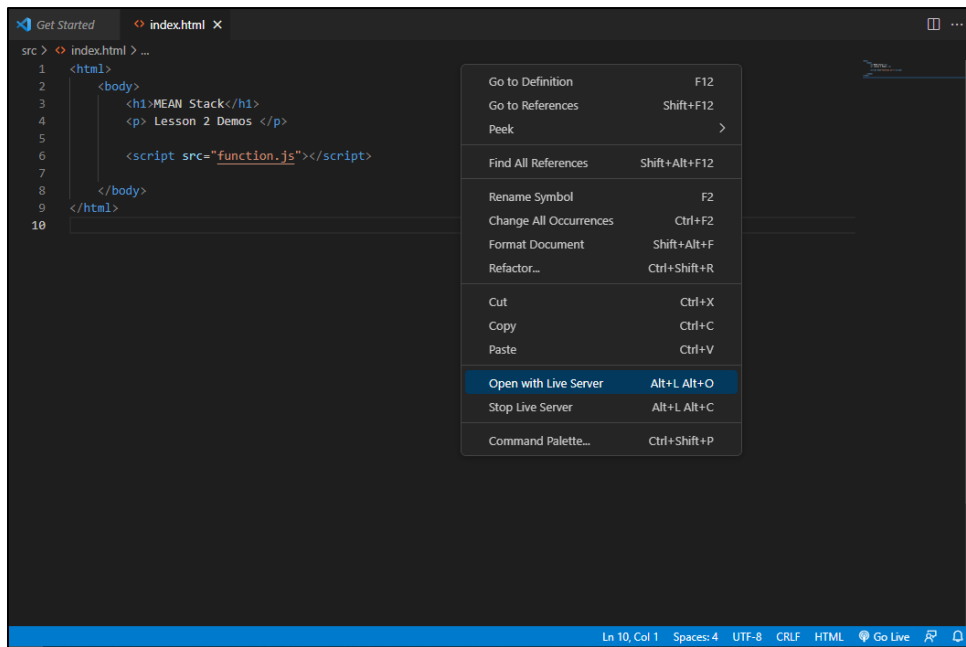
console.log(myFunction(3, 4));

function toCelcius(f) {
  return (5 / 9) * (f - 32);
}

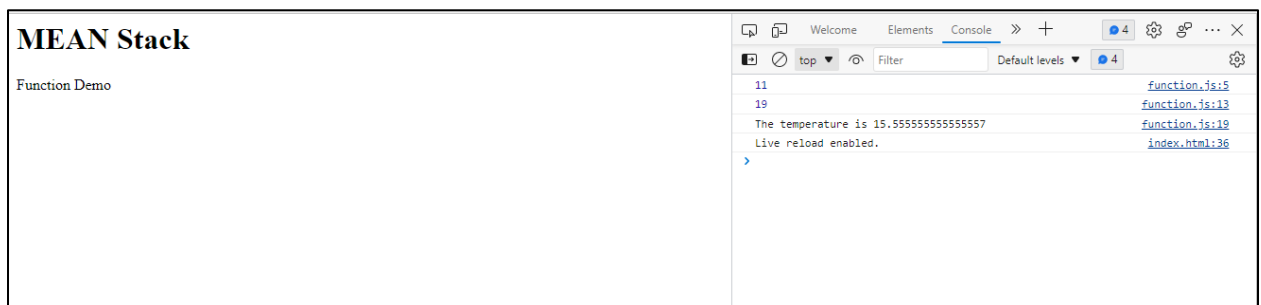
console.log("The temperature is " + toCelcius(60));
```

**Note:** Save the file

1.4 Right click on the **index.html** file of the project and select the **Open with Live Server** option



1.5 Once the server starts running, right click and select the **Inspect Element** option, and click on **Console** tab:



The provided code demonstrates a JavaScript program for working with functions. It includes the creation of an HTML file (index.html) and a JavaScript file (function.js) to showcase function usage, mathematical operations, and temperature conversion, with results logged in the browser console.

By following these steps, you have successfully implemented and verified JavaScript functions for mathematical operations and temperature conversion in a web application.