

Lesson 05 Demo 01

Working with IIFEs, Callbacks, and Closures

Objective: To implement IIFEs, callbacks, and closures

Tools required: Visual Studio Code

Prerequisites: NA

Steps to be followed:

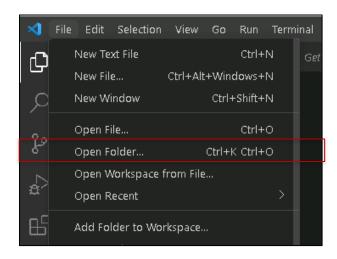
1. Writing a JavaScript program of IIFEs, callbacks, and closures

2. Executing and verifying the working of IIFEs with callbacks and closures

Step 1: Implementing a JavaScript program of IIFEs, callbacks, and closures:

Note: Create a folder named src folder for the project.

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





- 1.2 Right click on the **src** folder of the project and select **New File** option and enter the filename as **index.html**
- 1.3 Write the code shown below in the **index.html**:

```
<html>
    <body>
        <h1>MEAN Stack</h1>
        IIFEs, Callbacks and Closures 
        <script src="IIFEs_Callbacks_Closures.js"></script>
        </body>
</html>
```

1.4 Right click on the **src** folder of the project, select **New File** option and enter the filename as **IIFEs_Callbacks_Closures.js** and write the code shown below:

```
const empId = (function() {
    let count = 0;
    return function() {
        ++count;
        return `emp${count}`;
    };
})();

console.log("New Employee IDs are listed here");
console.log("Alex: "+empId());
console.log("Dexter: "+empId());
console.log("Annie: "+empId());
```

```
//Callbacks
console.log("\n"); //to start the output from the neext line
function fullName(firstName, lastName, callback){
  console.log("My name is " + firstName + " " + lastName);
  callback(lastName);
}

var greeting = function(ln){
  console.log('Welcome ' + ln);
};

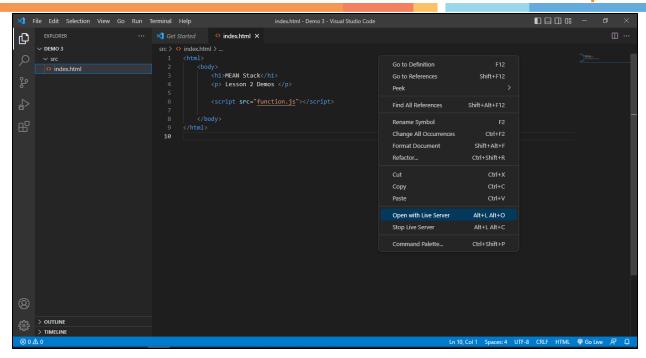
fullName("Alex", "Wilson", greeting);
  console.log("\n");
  fullName("Dexter", "Johnson", greeting);
  console.log("\n");
  fullName("Annie", "Butler", greeting);
```

1.5 Save the files.

Step 2: Executing and verifying the working of IIFEs with callbacks and closures:

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





2.2 When the server starts running, right click and select *Inspect Element* option. Click on *Console* tab.

