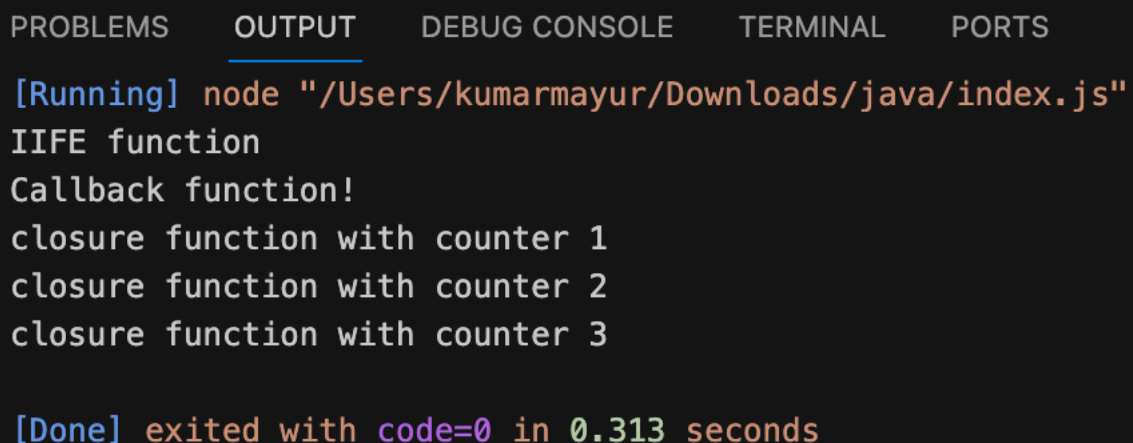


3.IIFEs, Callbacks, and Closures

```
(function () {  
    var message = "IIFE function";  
    console.log(message);  
})();  
// Callback function  
function sayHello(callback) {  
    var name = "Callback function";  
    callback(name);  
}  
// Closure  
function createCounter() {  
    var count = 0;  
  
    function increment() {  
        count++;  
        console.log("closure function with counter " + count);  
    }  
    return increment;  
}  
// Example usage  
sayHello(function (name) {  
    console.log(name + "!");  
});  
var counter = createCounter();  
counter();  
counter();  
counter();
```



The screenshot shows a dark-themed code editor with tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The OUTPUT tab is active, displaying the following text:

```
[Running] node "/Users/kumarmayur/Downloads/java/index.js"  
IIFE function  
Callback function!  
closure function with counter 1  
closure function with counter 2  
closure function with counter 3  
  
[Done] exited with code=0 in 0.313 seconds
```