



```
callback-read.js > ...
1 const fs = require('fs');
2
3 console.log("Starting read operation...");
4
5 fs.readFile('data.txt', 'utf8', (err, data) => {
6   if (err) {
7     return console.error("Error reading file:", err);
8   }
9
10  console.log("File contents:");
11  console.log(data);
12
13  setTimeout(() => {
14    console.log("Read operation completed");
15  }, 1000);
16}
17
18 console.log("This log runs BEFORE reading the file (non-blocking)");
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

powershell + ×

● PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> node callback-read.js
Starting read operation...
This log runs BEFORE reading the file (non-blocking)
File contents:
This is sample data for callback reading.
Read operation completed

❖ PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> []

powershell



A screenshot of the Visual Studio Code (VS Code) interface. The top navigation bar includes File, Edit, Selection, View, Go, Run, Terminal, Help, and a set of standard icons. A search bar at the top right contains the text "day18_assignment". The left sidebar features a dark-themed icon palette with various tools like Explorer, Search, and Outline.

The main area shows an "OPEN EDITORS" list with several files:

- callback-read.js** (selected)
- callback-read.js**
- DAY18_ASSIGNMENT**
- async-await-copy.js**
- callback-read.js**
- data.txt**
- input.txt**
- output.txt**
- promise-file-copy.js**
- README.txt**

The content of the selected file, `callback-read.js`, is displayed in the center:

```
1 const fs = require('fs');
2
3 console.log("Starting read operation...");
4
5 fs.readFile('data.txt', 'utf8', (err, data) => {
6   if (err) {
7     return console.error("Error reading file:", err);
8   }
9
10  console.log("File contents:");
11  console.log(data);
12
13  setTimeout(() => {
14    console.log("Read operation completed");
15  }, 1000);
16 });
17
18 console.log("This log runs BEFORE reading the file (non-blocking);")
```

The bottom section shows the "TERMINAL" tab active, displaying command-line logs from Node.js:

- PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> node callback-read.js
Starting read operation...
This log runs BEFORE reading the file (non-blocking)
File contents:
This is sample data for callback reading.
Read operation completed
- PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> node promise-file-copy.js
Starting file copy...
File copied successfully!
- PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> █

The status bar at the bottom provides file information: Ln 1, Col 1, Spaces: 2, UTF-8, LF, { } JavaScript, and a "Go Live" button.

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, under "OPEN EDITORS", the file "callback-read.js" is selected.
- Code Editor:** The main area displays the following JavaScript code:

```
1 const fs = require('fs');
2
3 console.log("Starting read operation...");
4
5 fs.readFile('data.txt', 'utf8', (err, data) => {
6   if (err) {
7     return console.error("Error reading file:", err);
8   }
9
10  console.log("File contents:");
11  console.log(data);
12
13  setTimeout(() => {
14    console.log("Read operation completed");
15  }, 1000);
16});
17
18 console.log("This log runs BEFORE reading the file (non-blocking)");
```
- Terminal:** At the bottom, the terminal window shows the execution of the script and its output:
 - Execution of `node callback-read.js`
 - Output:

```
PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> node callback-read.js
Starting read operation...
This log runs BEFORE reading the file (non-blocking)
File contents:
This is sample data for callback reading.
Read operation completed
```

● PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> `node callback-read.js`
Starting read operation...
This log runs BEFORE reading the file (non-blocking)
File contents:
This is sample data for callback reading.
Read operation completed

● PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> `node promise-file-copy.js`
Starting file copy...
File copied successfully!

● PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment> `node async-await-copy.js`
Starting async file copy...
File copied successfully! (async/await)

❖ PS C:\Users\kushw\OneDrive\Desktop\Wipro NGA - MERN\Day18\day18_assignment>