

Lesson 04 Demo 05

Creating an Event Loop

Objective: To create the event loop for handling asynchronous operations

Tools required: Visual Studio Code and Node Package Manager

Prerequisites: Basic Linux and NPM commands

Steps to be followed:

Execute setImmediate() and setTimeout()

2. Run the code

Step 1: Execute setImmediate() and setTimeout()

1.1 Execute the following code to import the file system module:

```
const fs = require("fs");
setTimeout(() => {
   console.log(">>> Callback in Timeout");
}, 0)

setImmediate(() => {
   console.log(">>> Callback in Immediate \n");
})
```



1.2 Run the following code to read the essay.md file

```
fs.readFile("./essay.md", (err, data) => {
    if(err) {
        console.log(err.stack);
        return;
    }
    console.log(data + "\n");
})
```



1.3 Implement setTimeout and setImmediate:

```
setTimeout(() => {
  console.log(">>> Callback in Timeout in Readfile");
  }, 0)

setImmediate(() => {
  console.log(">>> Callback in Immediate in Readfile");
})
```



Step 2: Run the code

2.1 Open the terminal window and execute the following command to run the code: **node index.js**

```
demopythonlyopm@ip-172-31-16-204:~/Desktop/nodeProjec/demo4$ node index.js
>>> Callback in Immediate
>>> Callback in Timeout
Mechanical Engineering Student Sample
In the first sample essay from mechanical engineering, what stands out immediate
ly are the length and the photographs. In this case, the student was applying fo
r an engineering scholarship, so he was given room to flesh out technical materi
al as well as address issues such as personal motivations one would expect to re
ad in a personal statement.
>>> Callback in Immediate in Readfile
>>> Callback in Timeout in Readfile
```

By following these steps, you have successfully created the event loop for handling asynchronous operations.