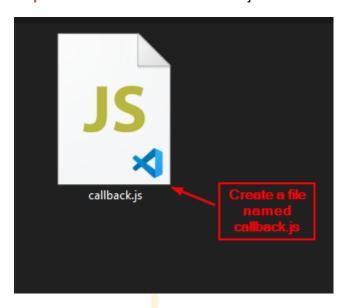


Module 2: Hands-On - 4

Performing Error Handling Using Callbacks

Step 1: Create a file named callback.js



Step 2: Open it in any text editor

Step 3: Type the following code:

```
function multiplyEvenNumbers(x, y, callback) {
       else setTimeout(() => callback(null, x * y), 2000);
   multiplyEvenNumbers(7, 9, (error, result) => {
       if (error != null) {
         console.log(error);
          return;
      console.log(result);
   3);
13
14
   multiplyEvenNumbers(8, 10, (error, result) => {
15
       if (error != null) {
          console.log(error);
16
          return;
18
      }
      console.log(result);
   3);
```



Step 3.1: Create a function named **multiplyEvenNumbers** that takes three arguments: two numbers **x** and **y** and a callback function. If either x or y is odd, then it waits for 2 seconds and calls the callback function with the error 'Invalid Input'; else, it will waits for 2 seconds and call the callback function with the error as null and the result as x * y

```
function-multiplyEvenNumbers(x, y, callback)-{
        if((x \% 2 != 0) | | (y \% 2 != 0)) setTimeout(() => callback("Invalid Input"), 2000);
        else setTimeout(() => callback(null, x * y), 2000);
    multiplyEvenNumbers(7, 9, (error, result) => {
        if (error != null) {
            console.log(error);
            return;
10
        }
        console.log(result);
   3);
   multiplyEvenNumbers(8, 10, (error, result) => {
        if (error ! = null) {
           console.log(error);
           return;
       - }
        console.log(result);
20 });
```

Step 3.2: Call the multiplyEvenNumbers function with an invalid input (odd numbers) and a callback that logs the error if there is an error, or logs the result if there is no error

```
function multiplyEvenNumbers(x, y, callback) {
        if ((x \times 2 != 0) \mid | (y \times 2 != 0)) setTimeout(() =  callback("Invalid Input"), 2000);
        else setTimeout(() => callback(null, x * y), 2000);
    3
    multiplyEvenNumbers(7, 9, (error, result) => {
        if (error != null) {
            console.log(error);
            return;
10
        console.log(result);
    });
    multiplyEvenNumbers(8, 10, (error, result) => {
        if (error ! = null) {
            console.log(error);
            return;
        }
        console.log(result);
20 });
```



Step 3.3: Call the multiplyEvenNumbers function again with a valid input (even numbers) and a callback that logs the error if there is an error, or logs the result if there is no error

```
function multiplyEvenNumbers(x, y, callback) {
        if ((x % 2 != 0) || (y % 2 != 0)) setTimeout(() => callback("Invalid Input"), 2000);
        else setTimeout(() => callback(null, x * y), 2000);
    multiplyEvenNumbers(7, 9, (error, result) => {
        if (error != null) {
            console.log(error);
            return;
10
        3
        console. log(result);
   });
    multiplyEvenNumbers(8, 10, (error, result) => {
        if (error != null) {
            console.log(error);
            return;
        console.log(result);
20
```

Step 4: Open the command prompt in the same directory as the file

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.18362.476]

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C:\Users\Intellipaat-Team\Desktop\Module 2\cb-error-handling>
```

Step 5: Run the file using the command 'node callback.js'

```
C:\Users\Intellipaat-Team\Desktop\Module 2\cb-error-handling>node callback.js
Invalid Input
80
C:\Users\Intellipaat-Team\Desktop\Module 2\cb-error-handling>
```