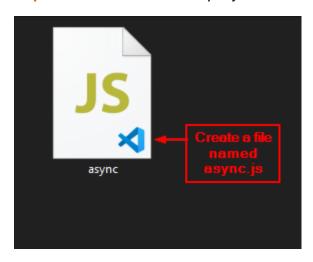


Module 2: Hands-On - 6

Performing Error Handling Using Async-Await

Step 1: Create a file named async.js



Step 2: Open it in any text editor

Step 3: Type the following code:

```
function multiplyEvenNumbers(x, y) {
         return new Promise((resolve, reject) => {
             setTimeout(() => {
                 if ((x % 2 != 0) || (y % 2 != 0)) reject("Invalid Input");
                resolve(x * y)
            }, 2000);
        3);
 8
    3
    async function multiply(x, y) {
10
11
         try {
12
             let result = await multiplyEvenNumbers(x, y);
13
             console. log(result);
        } catch(error) {
14
15
            console.log(error);
16
        }
17
    3
19
    multiply(7, 9);
20
   multiply(8, 10);
```



Step 3.1: Create a function named multiplyEvenNumbers that takes two numbers as arguments: \mathbf{x} and \mathbf{y} return a new promise that waits for 2 seconds and then checks if either x or y is odd. If they are, then it calls the reject function with the error 'Invalid Input'; else, it will call the resolve function with the result as $\mathbf{x} * \mathbf{y}$

```
function multiplyEvenNumbers(x, y) {
         return new Promise((resolve, reject) => {
            setTimeout(() -=> {
                 if ((x % 2 != 0) | | (y % 2 != 0)) reject("Invalid Input");
                resolve(x * y)
            }, 2000);
        });
10
    async function multiply(x, y) {
11
        try {
            let result = await multiplyEvenNumbers(x, y);
12
13
            console. log(result);
        } catch(error) {
            console.log(error);
    3
18
19 multiply(7, 9);
20 multiply(8, 10);
```

Step 3.2: Create another function named multiple with the async keyword. The method uses the try—catch block to handle errors. In the try block, it calls the multiplyEvenNumbers function and waits for the promise to resolve and return the answer which it logs to console. In the catch block, if any error occurs it logs the error

```
function-multiplyEvenNumbers(x,-y)-{
    return new Promise((resolve, reject) => {
        setTimeout(() -=> {
            if ((x % 2 != 0) || (y % 2 != 0)) reject("Invalid Input");
            resolve(x * y)
    3);
3
async function multiply(x, y) {
    try-{
        let result = await multiplyEvenNumbers(x, y);
       console.log(result);
    } catch(error) {
        console.log(error);
    3
multiply(7, 9);
multiply(8, 10);
```



Step 3.3: Call the multiplyEvenNumbers function two times once with an invalid input (odd numbers) and again with a valid input (even numbers)

```
function multiplyEvenNumbers(x, y) {
         return new Promise((resolve, reject) => {
             setTimeout(() -=> {
                 if ((x % 2 != 0) || (y % 2 != 0)) reject("Invalid Input");
                 resolve(x · * · y)
            }, 2000);
        3);
    }
10
    async function multiply(x, y) {
         try {
12
             let result = await multiplyEvenNumbers(x, y);
13
             console.log(result);
        } catch(error) {
             console.log(error);
         3
    }
18
    multiply(7, 9);
20
    multiply(8, 10)
```

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\async-error-handling>_
```

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

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

Microsoft Windows [Version 10.0.18362.476]
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C:\Users\Intellipaat-Team\Desktop\Module 2\async-error-handling>node async.js
Invalid Input
30

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