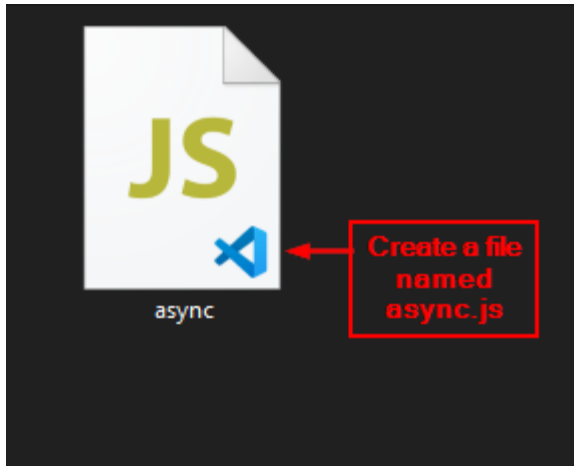


Module 2: Hands-On – 3

Using Async-Await with setTimeout

Step 1: Create a file named async.js



Step 2: Open it in any text editor

Step 3: Type the following code:

```
1  function timer(time) {  
2    return new Promise((resolve, reject) => {  
3      setTimeout(() => {resolve(time)}, time)  
4    });  
5  }  
6  
7  async function sleep(time) {  
8    let result = await timer(time);  
9    console.log(`Done after ${result}ms`);  
10 }  
11  
12 sleep(2000);  
13
```

Step 3.1: Create a function named **timer** that takes time in milliseconds as its argument and returns a new **promise** which calls the resolve method after a specified time

```
1 function timer(time) {  
2   ... return new Promise((resolve, reject) => {  
3     ...   setTimeout(() => {resolve(time)}, time)  
4     ...   });  
5 }  
6  
7 async function sleep(time) {  
8   ... let result = await timer(time);  
9   ... console.log(`Done after ${result}ms`);  
10 }  
11  
12 sleep(2000);
```

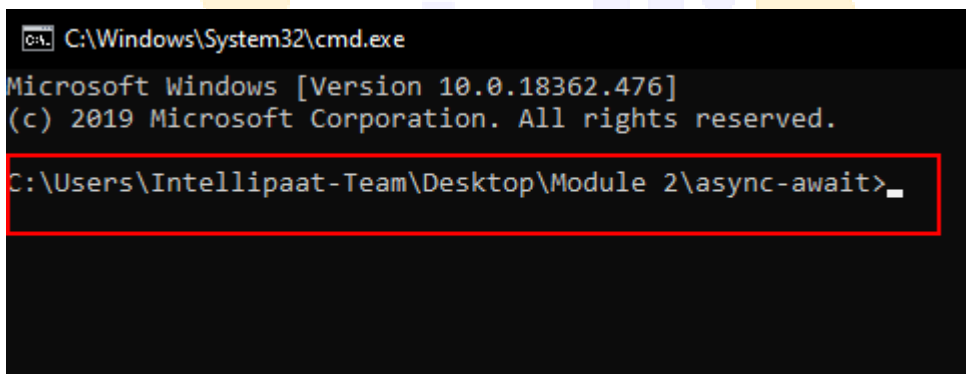
Step 3.2: Create another function named **sleep** with the **async** keyword that takes time in milliseconds as its argument and calls and waits for the timer function to finish executing, and then print its returned result

```
1 function timer(time) {  
2   ... return new Promise((resolve, reject) => {  
3     ...   setTimeout(() => {resolve(time)}, time)  
4     ...   });  
5 }  
6  
7 async function sleep(time) {  
8   ... let result = await timer(time);  
9   ... console.log(`Done after ${result}ms`);  
10 }  
11  
12 sleep(2000);
```

Step 3.3: Call the sleep function with 2000 milliseconds as its argument

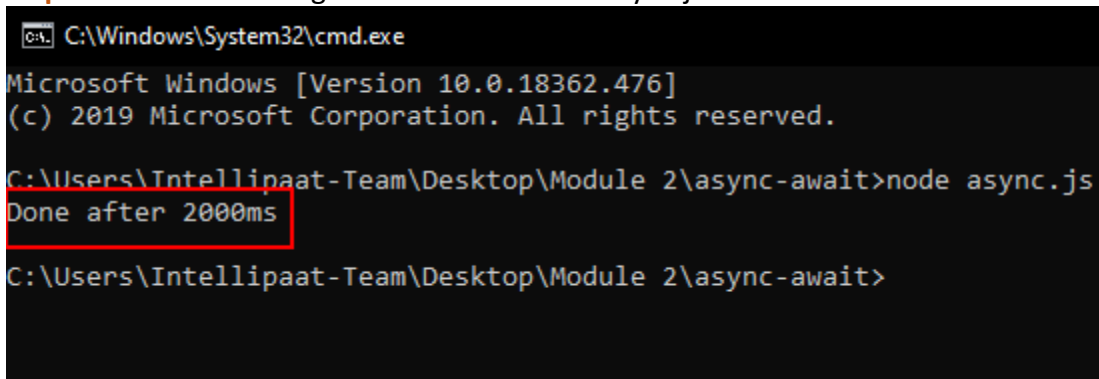
```
1  function timer(time) {  
2      return new Promise((resolve, reject) => {  
3          setTimeout(() => { resolve(time) }, time)  
4      });  
5  }  
6  
7  async function sleep(time) {  
8      let result = await timer(time);  
9      console.log(`Done after ${result}ms`);  
10 }  
11  
12 sleep(2000);
```

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]  
(c) 2019 Microsoft Corporation. All rights reserved.  
C:\Users\Intellipaat-Team\Desktop\Module 2\async-await>
```

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



```
C:\Windows\System32\cmd.exe  
Microsoft Windows [Version 10.0.18362.476]  
(c) 2019 Microsoft Corporation. All rights reserved.  
C:\Users\Intellipaat-Team\Desktop\Module 2\async-await>node async.js  
Done after 2000ms  
C:\Users\Intellipaat-Team\Desktop\Module 2\async-await>
```