

## Lab Test One (Full Stack Development)

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Github Link: [https://github.com/Harrybandukda/101451857\\_comp3123\\_labtest1](https://github.com/Harrybandukda/101451857_comp3123_labtest1)

### QUESTION ONE:

```
JS question-1.js X
JS question-1.js > ...
1  /// MO HARRY BANDUKDA ///
2  /// STUDENT ID: 101451857 ///
3  /// LAB TEST ONE - COMP2123 ///
4
5
6  // Create a script with a function named lowerCaseWords that takes a mixed array as input.
7  // The function will do the following.
8  // - return a promise that is resolved or rejected
9  // - filter the non-strings and lower case the remaining words
10
11 function lowerCaseWords(array) {
12     return new Promise((resolve, reject) => {
13         const lowercasedStr = array
14             .filter(array => typeof array === 'string')
15             .map (array => array.toLowerCase());
16
17         (lowercasedStr.length > 0)
18             ? resolve(lowercasedStr)
19             : reject('Opps: String is not found in th array');
20     })
21 }
22
23
24 const mixedArray = ['PIZZA', 10, true, 25, false, 'Wing']
25 const mixedArray2 = ['HARRY', 'PrItEsh', false, 25, 'pATEL', 'BANDUKDA']
26 const mixedArray3 = [false, 25,]
27
28 lowerCaseWords(mixedArray)
29     .then(result => console.log(result))
30     .catch(error => console.log(error))
31
32 lowerCaseWords(mixedArray2)
33     .then(result => console.log(result))
34     .catch(error => console.log(error))
35
36 lowerCaseWords(mixedArray3)
37     .then(result => console.log(result))
38     .catch(error => console.log(error))
39
```

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE COMMENTS

```
C:\Program Files\nodejs\node.exe .\question-1.js
> (2) ['pizza', 'wing']
> (4) ['harry', 'pritesh', 'patel', 'bandukda']
Opps: String is not found in th array
```

## QUESTION TWO:

```
JS callbackjs x
question-2 > JS callbackjs > ...
1  /// MO HARRY BANDUKDA ///
2  /// STUDENT ID: 101451857 ///
3  /// LAB TEST ONE - COMP2123 ///
4
5
6  // Question Two:
7
8  // Write a script that does the following:
9  // Create a method resolvedPromise that is similar to delayedSuccess and resolves a message after a timeout of 500ms.
10 // Create a method rejectedPromise that is similar to delayedException and rejects an error message after a timeout of 500ms.
11 // Call both promises separately and handle the resolved and rejected results, then output to the console.
12
13
14 const resolvedPromised = () => new Promise((resolve, reject) => {
15     setTimeout(() => {
16         resolve('Success : Delayed sucess')
17     }, 500)
18 })
19
20 const rejectedPromise = () => new Promise((resolve, reject) => {
21     setTimeout(() => {
22         reject('Error : Delayed error')
23     }, 500)
24 })
25
26 resolvedPromised()
27     .then(result => console.log(result))
28
29 rejectedPromise()
30     .catch(error => console.log(error))
31
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE COMMENTS

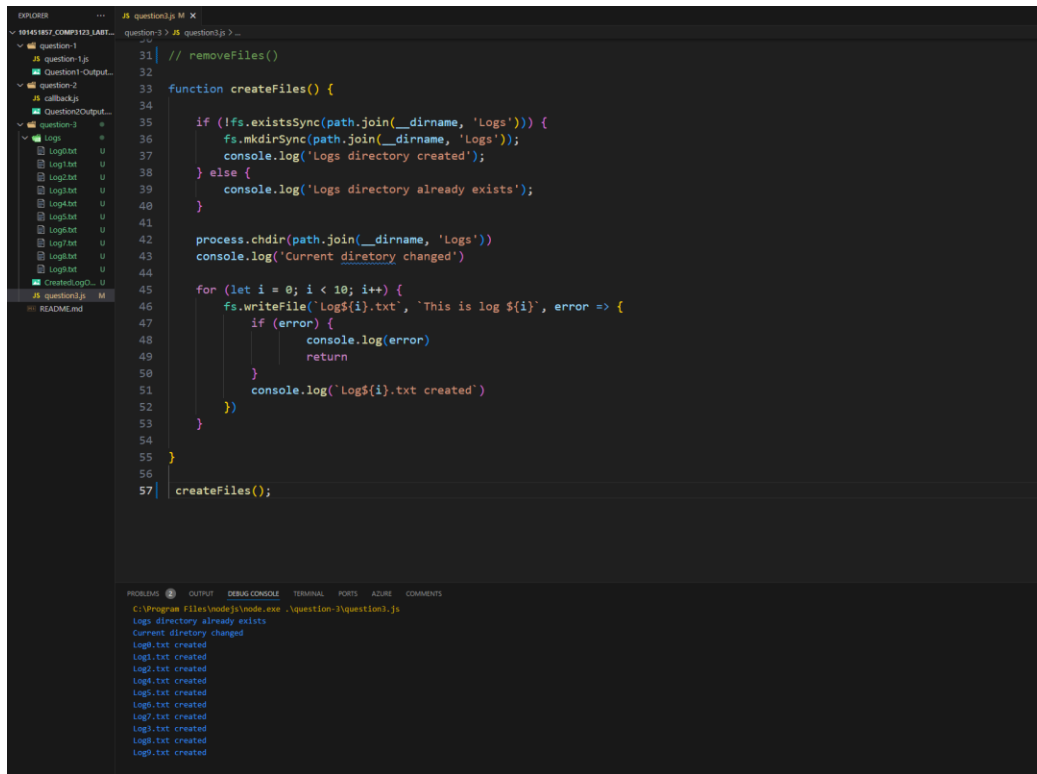
C:\Program Files\nodejs\node.exe .\question-2\callback.js

Success : Delayed sucess

Error : Delayed error

## QUESTION THREE:

### Create Log Files:

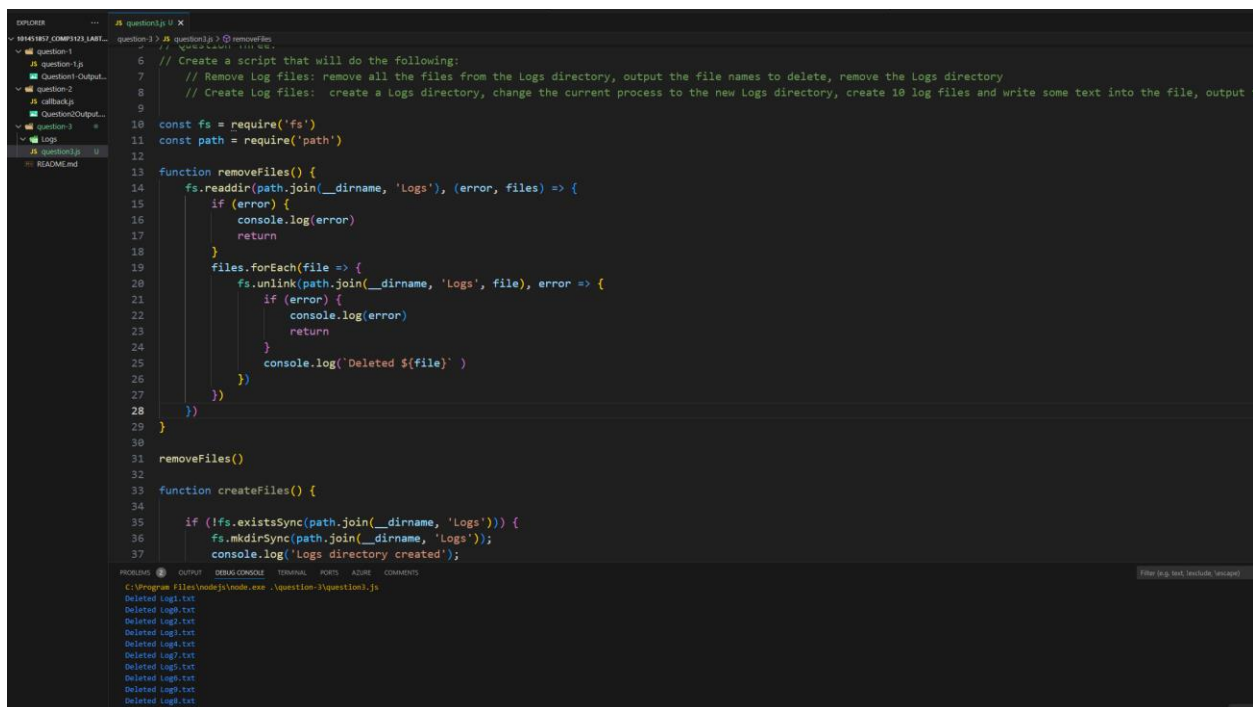


```
31 // removeFiles()
32
33 function createFiles() {
34
35     if (fs.existsSync(path.join(__dirname, 'Logs'))) {
36         fs.mkdirSync(path.join(__dirname, 'Logs'));
37         console.log('Logs directory created');
38     } else {
39         console.log('Logs directory already exists');
40     }
41
42     process.chdir(path.join(__dirname, 'Logs'))
43     console.log('Current directory changed')
44
45     for (let i = 0; i < 10; i++) {
46         fs.writeFile(`log${i}.txt`, 'This is log ${i}', error => {
47             if (error) {
48                 console.log(error)
49                 return
50             }
51             console.log(`Log${i}.txt created`)
52         })
53     }
54 }
55
56 createFiles();
57
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE COMMENTS

C:\Program Files\nodejs\node.exe .\question-3\question3.js  
Logs directory already exists  
Current directory changed  
log0.txt created  
log1.txt created  
log2.txt created  
log3.txt created  
log4.txt created  
log5.txt created  
log6.txt created  
log7.txt created  
log8.txt created  
log9.txt created

### Remove Log Files:



```
6 // Create a script that will do the following:
7 // Remove Log files: remove all the files from the Logs directory, output the file names to delete, remove the Logs directory
8 // Create Log files: create a Logs directory, change the current process to the new Logs directory, create 10 log files and write some text into the file, output
9
10 const fs = require('fs')
11 const path = require('path')
12
13 function removeFiles() {
14     fs.readdir(path.join(__dirname, 'Logs'), (error, files) => {
15         if (error) {
16             console.log(error)
17             return
18         }
19         files.forEach(file => {
20             fs.unlink(path.join(__dirname, 'Logs', file), error => {
21                 if (error) {
22                     console.log(error)
23                     return
24                 }
25                 console.log('Deleted ${file}')
26             })
27         })
28     })
29 }
30
31 removeFiles()
32
33 function createFiles() {
34
35     if (!fs.existsSync(path.join(__dirname, 'Logs'))) {
36         fs.mkdirSync(path.join(__dirname, 'Logs'));
37         console.log('Logs directory created');
38     }
39 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE COMMENTS

C:\Program Files\nodejs\node.exe .\question-3\question3.js  
Deleted log0.txt  
Deleted log1.txt  
Deleted log2.txt  
Deleted log3.txt  
Deleted log4.txt  
Deleted log5.txt  
Deleted log6.txt  
Deleted log7.txt  
Deleted log8.txt  
Deleted log9.txt