

Q1:

```
JS lowerCaseWords.js U X Lab_Test_1.pdf U JS callbacks.js U JS add.js U JS remove.js U

JS lowerCaseWords.js > lowerCaseWords
1 //Question 1
2 function lowerCaseWords(arr){
3     return new Promise((res,rej)=>{
4         if(!Array.isArray(arr)){
5             return rej("This is not an array");
6         }
7
8         try{
9             let words = []
10            for(let word of arr){
11                if(typeof word === 'string'){
12                    words.push(word.toLowerCase());
13                }
14            }
15            res(words);
16        }catch(error){
17            rej(error);
18        }
19    });
20 }
21
22 const mixedArray = ['PIZZA',10,true,25,false,'Wings'];
23 console.log(lowerCaseWords(mixedArray))
```

PROBLEMS TERMINAL OUTPUT DEBUG CONSOLE PORTS

● PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\lowerCaseWords.js"
Promise { ['pizza', 'wings'] }

○ PS D:\GBC\2024Fall\101434395_comp3123_labtest1>

Q2:

```
EXPLORER lowerCaseWords.js U Lab_Test_1.pdf U callbacks.js U X add.js U remove.js U
OPEN EDITORS
lowerCaseWords.js U
Lab_Test_1.pdf U
callbacks.js U
add.js U
remove.js U
101434395_COMP3123_LABTEST1
add.js U
callbacks.js U
Lab_Test_1.pdf U
lowerCaseWords.js U
Question1.png U
README.md U
remove.js U

callbacks.js > rejectedPromise
2 function resolvedPromise(){
3     return new Promise((res)=>{
4         setTimeout(()=>{
5             let success = {message: 'delayed success!'}
6             //console.log(success);
7             res(success);
8         },500)
9     });
10 }
11
12 function rejectedPromise(){
13     return new Promise((_,rej)=>{
14         setTimeout(()=>{
15             try{
16                 throw new Error('error: delayed exception!');
17             }catch(e){
18                 //console.error(e);
19                 rej(e);
20             }
21         },500)
22     });
23 }
24
25
26 resolvedPromise()
27 .then((message)=>{
28     console.log(message)
29 })
30 .catch((error)=>{
31     console.error(error)
32 });
33
34 rejectedPromise()
35 .then((message)=>{
36     console.log(message)
37 })
38 .catch((error)=>{
39     console.error(error.message)
40 });
```

PROBLEMS TERMINAL OUTPUT DEBUG CONSOLE PORTS

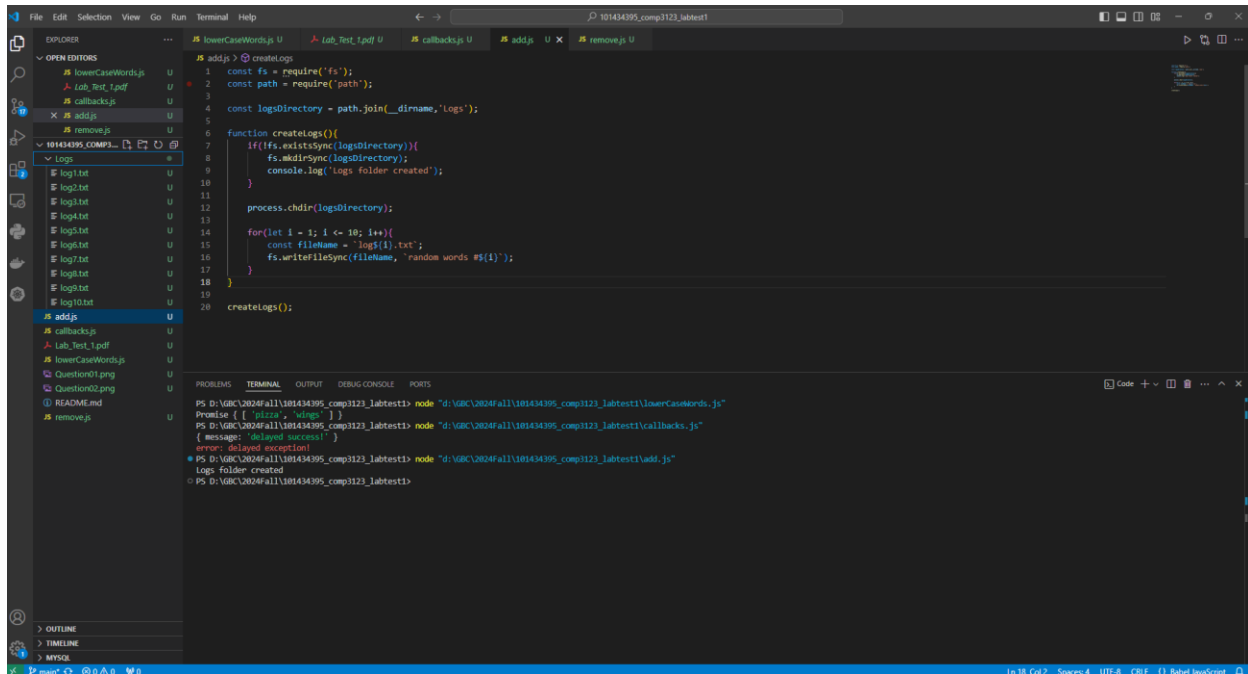
PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\lowerCaseWords.js"
Promise { ['pizza', 'wings'] }

PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\callbacks.js"
{ message: 'delayed success!' }

error: delayed exception!
PS D:\GBC\2024Fall\101434395_comp3123_labtest1>

OUTLINE
TIMELINE
MYSQL

Q3 Add:



The screenshot shows the VS Code editor with the file explorer on the left. The file explorer shows a project named '101434395_comp3123_labtest1' with a folder 'logs' containing files 'log1.txt' through 'log10.txt'. The file 'add.js' is selected in the file explorer. The editor shows the code for 'add.js' and the terminal output.

```
const fs = require('fs');
const path = require('path');
const logsDirectory = path.join(__dirname, 'logs');

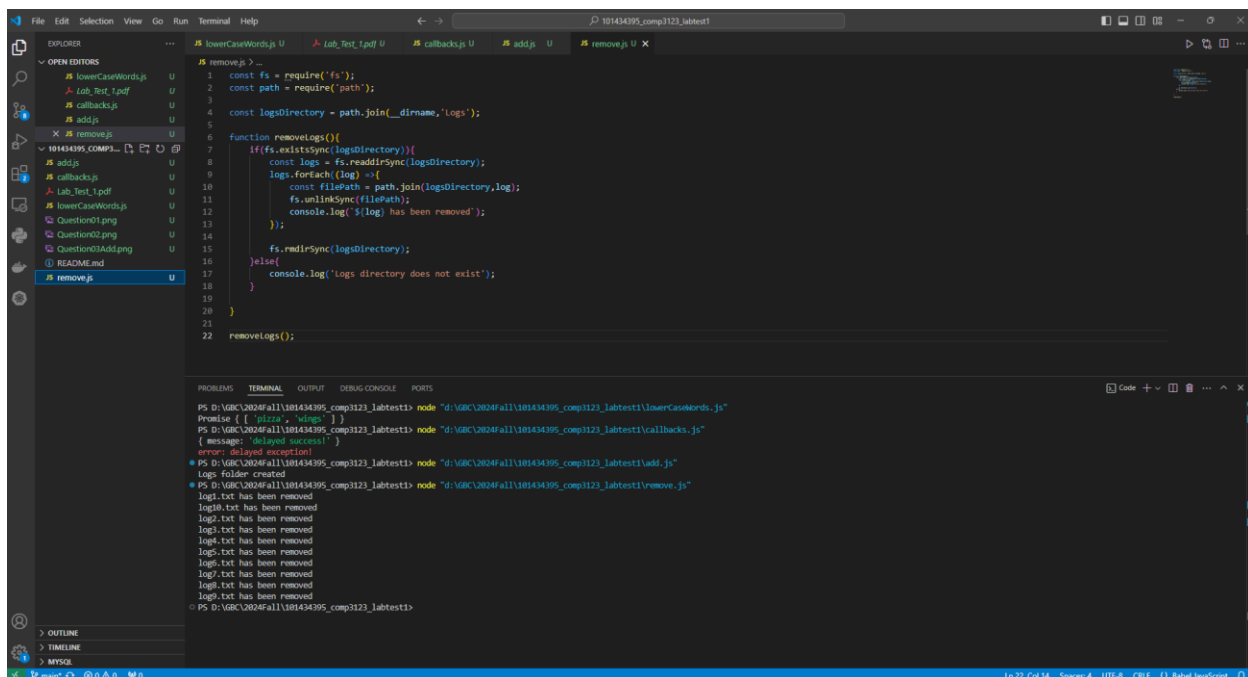
function createLogs() {
  if (!fs.existsSync(logsDirectory)) {
    fs.mkdirSync(logsDirectory);
    console.log('logs folder created');
  }
  process.chdir(logsDirectory);
  for (let i = 1; i <= 10; i++) {
    const fileName = `log${i}.txt`;
    fs.writeFileSync(fileName, 'random words #' + i);
  }
}

createLogs();
```

Terminal Output:

```
PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\lowerCaseWords.js"
Promise { { 'pizza', 'wings' } }
PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\callbacks.js"
{ message: 'delayed success' }
error: Delayed exception!
PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\add.js"
logs folder created
PS D:\GBC\2024Fall\101434395_comp3123_labtest1>
```

Q3 Remove:



The screenshot shows the VS Code editor with the file explorer on the left. The file explorer shows the same project as the previous screenshot, but the 'logs' folder is now empty. The file 'remove.js' is selected in the file explorer. The editor shows the code for 'remove.js' and the terminal output.

```
function removeLogs() {
  if (fs.existsSync(logsDirectory)) {
    const logs = fs.readdirSync(logsDirectory);
    logs.forEach(log => {
      const filePath = path.join(logsDirectory, log);
      fs.unlinkSync(filePath);
      console.log(`${log} has been removed`);
    });
    fs.rmdirSync(logsDirectory);
  } else {
    console.log('logs directory does not exist');
  }
}

removeLogs();
```

Terminal Output:

```
PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\lowerCaseWords.js"
Promise { { 'pizza', 'wings' } }
PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\callbacks.js"
{ message: 'delayed success' }
error: Delayed exception!
PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\add.js"
logs folder created
PS D:\GBC\2024Fall\101434395_comp3123_labtest1> node "d:\GBC\2024Fall\101434395_comp3123_labtest1\remove.js"
log1.txt has been removed
log2.txt has been removed
log3.txt has been removed
log4.txt has been removed
log5.txt has been removed
log6.txt has been removed
log7.txt has been removed
log8.txt has been removed
log9.txt has been removed
log10.txt has been removed
PS D:\GBC\2024Fall\101434395_comp3123_labtest1>
```