

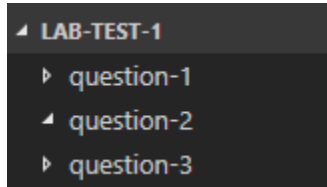
COMP 3123 –Test – 1 (6%)

06:00 PM to 09:00 PM

Developer Note:

When working on your questions, please create separate folder for your work. This way you won't be putting all your code in the same file, which can pollute the global namespace. In short, it will prevent you from overwriting your own work and causing your code to compile incorrectly.

Organize your folder structure in this way.



Lab Test Reference

You may use the Javascript ES6 and node.js online documentation

<https://developer.mozilla.org/en-US/docs/Web/JavaScript>

<https://nodejs.org/en/docs/>

Lab Test Submission

Create a git repo name studentid_**comp3123_test1** on GitHub

Please submit the ZIP of the test project and GitHub report link at the end of the lab

Also, provide screenshots if each output

Question 1: ES6 Features

- Create a script with a function named **lowerCaseWords** that takes a mixed array as input.

The function will do the following.

- return a promise that is resolved or rejected
- filter the non-strings and lower case the remaining words

- Input

```
const mixedArray = ['PIZZA', 10, true, 25, false, 'Wings']
```

- Output

```
[ 'pizza', 'wings' ]
```

Question 2: Promises


- Given the script file **callbacks.js**, write a script that does the following:
 - Create a method **resolvedPromise** that is similar to **delayedSuccess** and resolves a message after a timeout of 500ms.
 - Create a method **rejectedPromise** that is similar to **delayedException** and rejects an error message after a timeout of 500ms.
 - Call both promises separately and handle the resolved and reject results and then output to the console

callbacks.js

```
const delayedSuccess = () => {
  setTimeout(() => {
    let success = {message: 'delayed success!'}
    console.log(success);
  }, 500)
}

const delayedException = () => {
  setTimeout(() => {
    try {
      throw new Error('error: delayed exception!');
    } catch (e) {
      console.error(e);
    }
  }, 500)
}

delayedSuccess()
delayedException()
```

 Output

```
{ message: 'delayed success!' }
{ error: 'delayed exception!' }
```

Question 3: File Module

- Create a script that will do the following:
 - Remove Log files**
 - remove all the files from the Logs directory, if exists
 - output the file names to delete

- remove the Logs directory

2. Create Log files

- create a Logs directory, if it does not exist
- change the current process to the new Logs directory
- create 10 log files and write some text into the file
- output the files names to console
- **Hint:** use the fs module and path module, and the process current working directory to build directory path. It is acceptable, to have a remove.js script and separate add.js script.

> Output

```
log0.txt  
log1.txt  
log2.txt  
log3.txt  
log4.txt  
log5.txt  
log6.txt  
log7.txt  
log8.txt  
log9.txt
```

```
delete files...log0.txt  
delete files...log1.txt  
delete files...log2.txt  
delete files...log3.txt  
delete files...log4.txt  
delete files...log5.txt  
delete files...log6.txt  
delete files...log7.txt  
delete files...log8.txt  
delete files...log9.txt
```