Comp3123 Lab Test 1
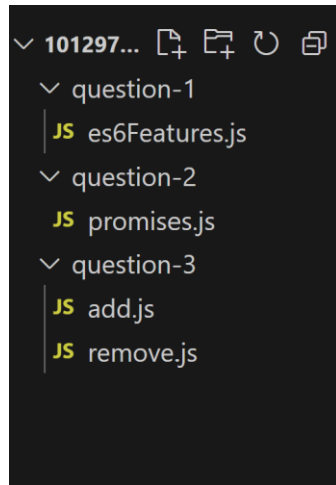
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https://github.com/margaretTere/101297977_Comp3123_labTest1

```
∨ 101297...   ⊡  ⊡  ↻  ⊟
  ∨ question-1
  │ JS es6Features.js
  ∨ question-2
    JS promises.js
  ∨ question-3
  │ JS add.js
  │ JS remove.js
```

Question 1

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

function lowerCaseWords(a){
    const promise = new Promise((resolve, reject) =>{
        try{
        const result = [];
        for(e of a){
            if(typeof e === "string"){
                result.push(e.toLowerCase());
            }
        }
        resolve(result);
    }catch(e){
        reject(new Error(e.message));
    }
    });
    return promise;
};

lowerCaseWords(mixedArray)
    .then(data => console.log('Resolved: ', data))
    .catch(err => console.log(`Rejected: ${err}`));
```

```javascript
1    const mixedArray = ['PIZZA', 10, true, 25, false, 'Wings']
2
3    function lowerCaseWords(a){
4        const promise = new Promise((resolve, reject) =>{
5            try{
6            const result = [];
7            for(e of a){
8                if(typeof e === "string"){
9                    result.push(e.toLowerCase());
10               }
11           }
12               resolve(result);
13       }catch(e){
14           reject(new Error(e.message));
15       }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
Resolved:  [ 'pizza', 'wings' ]
PS C:\fullstackLab\101297977_comp3123_labtest1> node "c:\fullstackLab\101297977_comp3123
atures.js"
Resolved:  [ 'pizza', 'wings' ]
PS C:\fullstackLab\101297977_comp3123_labtest1>
```

Question 2

```js
const resolvedPromise = () =>{
    const promise = new Promise((resolve, reject) => {
        setTimeout(()=>{
            let success = {'message': 'delayed success!'};
            resolve(success);

        }, 500);
    });

    return promise
};

const rejectedPromise = () =>{
    const promise = new Promise((resolve, reject) => {
        setTimeout(() =>{
                reject({'error': 'delayed exception!'});

        }, 500);
    });
    return promise;
}


resolvedPromise()
.then(data => console.log(data));

rejectedPromise()
.catch(err => console.log(err));
```

```
PS C:\fullstackLab\101297977_comp3123_labtest1> node "c:\fullstackLab\101297977_comp3123_labtest1\question-2\pro
ses.js"
{ message: 'delayed success!' }
{ error: 'delayed exception!' }
PS C:\fullstackLab\101297977_comp3123_labtest1>
```

Question 3

```javascript
1    const fs = require('fs');
2    const path = require('path');
3    const { fileURLToPath } = require('url');
4
5
6    const logFolder = path.join(__dirname, 'Log');
7    // Create Log Folder
8    try{
9        if(!fs.existsSync(logFolder)){
10           fs.mkdirSync(logFolder);
11       }
12   } catch(err){
13       console.error('Cannot create Log folder', err)
14   }
15
16   // Change Folder
17   if(process.cwd() !== logFolder){
18       process.chdir(logFolder);
19   }
20
21   //Create 10 Log Files
22   for(let i = 0; i< 10; i++){
23       const fileName = `log${i}.text`;
24       filePath = path.join(logFolder, fileName);
25       fs.writeFileSync(filePath, (Math.random() + 1).toString(36));
26
27   }
```

```javascript
27   }
28   //Printing Log Folder
29   for (f of fs.readdirSync(logFolder)){
30       console.log(f);
31   }
```

```
  12  } catch(err){
  13      console.error('Cannot create Log folder', err)
  14  }
  15
  16  // Change Folder
  17  if(process.cwd() !== logFolder){
  18      process.chdir(logFolder);
  19  }
  20
  21  //Create 10 Log Files
  22  for(let i = 0; i< 10; i++){
  23      const fileName = `log${i}.text`;
  24      filePath = path.join(logFolder, fileName);
  25      fs.writeFileSync(filePath, (Math.random() + 1).toString(36));
  26
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\fullstackLab\101297977_comp3123_labtest1> node "c:\fullstackLab\101297977_comp3123_labtest1\question-3\add.
s"
log0.text
log1.text
log2.text
log3.text
log4.text
log5.text
log6.text
log7.text
log8.text
log9.text
```

```js
const fs = require('fs');
const path = require('path');
const { fileURLToPath } = require('url');


const logFolder = path.join(__dirname, 'Log');

//Check for Log folder
try{
    if(fs.existsSync(logFolder)){
        process.chdir(logFolder);
        for(f of fs.readdirSync(logFolder)){
            console.log(`Delete file ... ${f}`);

            const filePath = path.join(logFolder, f);
            fs.unlinkSync(filePath);
        }

        process.chdir(__dirname);
        //Remove Folder
        fs.rmSync(logFolder, { recursive: true, force: true});
    }else{
        console.log('Log folder does not exist');
    }
} catch(err){
    console.error('Cannot create Log folder', err)
}
```

```js
question-3 > JS remove.js > ...
1    const fs = require('fs');
2    const path = require('path');
3    const { fileURLToPath } = require('url');
4
5
6    const logFolder = path.join(__dirname, 'Log');
7
8    //Check for Log folder
9    try{
10       if(fs.existsSync(logFolder)){
11           process.chdir(logFolder);
12           for(f of fs.readdirSync(logFolder)){
13               console.log(`Delete file ... ${f}`);
14
15               const filePath = path.join(logFolder, f);
16               fs.unlinkSync(filePath);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
                                                    node "c:\fullstackLab\101297977_comp31
e.js"
Delete file ... log0.text
Delete file ... log1.text
Delete file ... log2.text
Delete file ... log3.text
Delete file ... log4.text
Delete file ... log5.text
Delete file ... log6.text
Delete file ... log7.text
Delete file ... log8.text
Delete file ... log9.text
PS C:\fullstackLab\101297977_comp3123_labtest1>
```