Question 1:

```
JS promise.js      JS remove.js      JS lowerCaseWords.js ×      JS add.js

Question1 > JS lowerCaseWords.js > ...
    1    const lowerCaseWords = (mixedArray) => {
    2        return new Promise((res, rej) =>{
    3            if(!Array.isArray(mixedArray)){
    4                return rej("Input is Invalid");
    5            }
    6
    7            const stringArray = mixedArray.filter(item => typeof item === 'string').map(word => word.toLowerCase());
    8
    9            stringArray.length > 0 ? res(stringArray) : rej("No strings found in the array");
   10        });
   11    };
   12
   13    const mixedArray = ['PIZZA', 10, true, 25, false, 'Wings'];
   14    lowerCaseWords(mixedArray).then(result => console.log(result)).catch(error => console.log(error));
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                                           powershell

PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest> cd Question1
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question1> node lowerCaseWords.js
[ 'pizza', 'wings' ]
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question1>
```

Question 2:

Rejected Promise

```
JS promise.js ×      JS remove.js      JS lowerCaseWords.js      JS add.js

Question2 > JS promise.js > [@] rejectedPromise
    1    const resolvedPromise = () =>{
    2        return new Promise((resolve) => {
    3            setTimeout(() => {
    4                resolve({message : 'delayed success!'});
    5            }, 500);
    6        });
    7    };
    8
    9    const rejectedPromise = () => {
   10        return new Promise((_, reject) => {
   11            setTimeout(() => {
   12                reject(new Error('error :  delayed exception!'));
   13            }, 500);
   14        });
   15    };
   16
   17    // resolvedPromise().then(result => console.log(result)).catch(error => console.error(error));
   18    rejectedPromise().then(result => console.log(result)).catch(error => console.error(error));
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                                           powersh

PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest> cd Question1
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question1> node lowerCaseWords.js
[ 'pizza', 'wings' ]
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question1> cd ..
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest> cd Question2
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question2> node promise.js
Error: error :  delayed exception!
    at Timeout._onTimeout (C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question2\promise.js:12:20)
    at listOnTimeout (node:internal/timers:581:17)
    at process.processTimers (node:internal/timers:519:7)
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question2>
```

Resolved Promise

```
JS promise.js M ×    JS remove.js        JS lowerCaseWords.js      JS add.js
Question2 > JS promise.js > ...
  1    const resolvedPromise = () =>{
  2        return new Promise((resolve) => {
  6        });
  7    };
  8
  9    const rejectedPromise = () => {
 10        return new Promise((_, reject) => {
 11            setTimeout(() => {
 12                reject(new Error('error :  delayed exception!'));
 13            }, 500);
 14        });
 15    };
 16
 17    resolvedPromise().then(result => console.log(result)).catch(error => console.error(error));
 18    // rejectedPromise().then(result => console.log(result)).catch(error => console.error(error));
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                        powershell

PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question2> node promise.js
{ message: 'delayed success!' }
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question2> S
```

Question 3:

Add

```
JS promise.js M ×    JS remove.js        JS lowerCaseWords.js      JS add.js
Question2 > JS promise.js > ...
  1    const resolvedPromise = () =>{
  2        return new Promise((resolve) => {
  6        });
  7    };
  8
  9    const rejectedPromise = () => {
 10        return new Promise((_, reject) => {
 11            setTimeout(() => {
 12                reject(new Error('error :  delayed exception!'));
 13            }, 500);
 14        });
 15    };
 16
 17    resolvedPromise().then(result => console.log(result)).catch(error => console.error(error));
 18    // rejectedPromise().then(result => console.log(result)).catch(error => console.error(error));
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question2> cd ..
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest> cd Question3
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question3> node add.js
Logs directory created
log0.txt
log1.txt
log2.txt
log3.txt
log4.txt
log5.txt
log6.txt
log7.txt
log8.txt
log9.txt
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question3>
```

Remove

```js
const logDir = path.join(__dirname, 'Logs');

if(fs.existsSync(logDir)){
    fs.readdirSync(logDir).forEach(file => {
        const filePath = path.join(logDir, file);
        console.log(`delete files...${file}`);

        fs.unlinkSync(filePath);
    });

    fs.rmdirSync(logDir);
    console.log("Logs directory removed");
}else{
    console.log("Logs directory does not exists");
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question3> node remove.js
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
Logs directory removed
PS C:\Users\helly\OneDrive\Desktop\GBC\Sem5\JavaScript\101414910_COMP3123_LabTest\Question3>
```