

EXPLORER

P3 NODE JS

JS app.js

JS blocking-read.js

JS math.js

JS non-blocking-read.js

(1) package.json

sample.txt

settimeout.js

app.js

1 const { add, subtract } = require('./math');

2

3 console.log('=== Math Operations Demo ===');

4

5 const num1 = 10;

6 const num2 = 5;

7

8 const sum = add(num1, num2);

9 console.log(`\${num1} + \${num2} = \${sum}`);

10

11

12 const difference = subtract(num1, num2);

13 console.log(`\${num1} - \${num2} = \${difference}`);

14

15 console.log('Additional examples:');

16 console.log(`20 + 15 = \${add(20, 15)}`);

17 console.log(`50 - 25 = \${subtract(50, 25)}`);

18

PROBLEMS

OUTPUT

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PORTS

Filter

Code

20 + 15 = 35

50 - 25 = 25

[Done] exited with code=0 in 0.183 seconds

[Running] node "d:\p 3 node js\app.js"

=== Math Operations Demo ===

10 + 5 = 15

10 - 5 = 5

Additional examples:

20 + 15 = 35

50 - 25 = 25

[Done] exited with code=0 in 0.18 seconds

OUTLINE

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P3 NODE JS

JS app.js

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(1) package.json

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math.js

1 > function add(a, b) { ...

2 }

3

4

5

6 function subtract(a, b) {

7 return a - b;

8 }

9

10 module.exports = {

11 add,

12 subtract

13 };

14

PROBLEMS

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PORTS

Filter

Code

20 + 15 = 35

50 - 25 = 25

[Done] exited with code=0 in 0.183 seconds

[Running] node "d:\p 3 node js\app.js"

=== Math Operations Demo ===

10 + 5 = 15

10 - 5 = 5

Additional examples:

20 + 15 = 35

50 - 25 = 25

[Done] exited with code=0 in 0.18 seconds

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P3 NODE JS

JS app.js

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(1) package.json

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non-blocking-read.js

8

9 fs.readFile('sample.txt', 'utf8', (error, data) => {

10 if (error) {

11 console.error('Error reading file:', error.message);

12 return;

13 }

14

15 console.log('4. File read completed! (This runs when file is ready)');

16 console.log('5. File contents:');

17 console.log('-----');

18 console.log(data);

19 console.log('-----');

20 console.log('6. This callback executed asynchronously!');

21 });

22

23 console.log('3. This runs IMMEDIATELY after starting file read');

24 console.log('7. Script main execution completed');

25 console.log('8. Notice: The file contents appear AFTER this message');

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Filter

Code

=== NON-BLOCKING FILE READ DEMO ===

1. Starting script execution...

2. About to read file (NON-BLOCKING)...

3. This runs IMMEDIATELY after starting file read

7. Script main execution completed

8. Notice: The file contents appear AFTER this message

4. File read completed! (This runs when file is ready)

5. File contents:

-----

Student Information System

=====

Name: Akshat Singh

Student ID: 67202344124

Course: Computer Science Engineering

Semester: 5th Semester

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▼ P 3 NODE JS

# app.js

# blocking-read.js

# math.js

# non-blocking-read.js

() package.json

sample.txt

# settimeout.js

# blocking-read.js > ...

```
1 const fs = require('fs');
2
3 console.log('=== BLOCKING FILE READ DEMO ===');
4 console.log('1. Starting script execution...');
5
6 try {
7   console.log('2. About to read file (BLOCKING)...');
8
9   const data = fs.readFileSync('sample.txt', 'utf8');
10
11   console.log('3. File read completed!');
12   console.log('4. File contents:');
13   console.log('-----');
14   console.log(data);
15   console.log('-----');
16 } catch (error) {
17   console.error('Error reading file:', error.message);
18 }
19 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Filter

Code

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```
=== BLOCKING FILE READ DEMO ===
1. Starting script execution...
2. About to read file (BLOCKING)...
3. File read completed!
4. File contents:
-----
Student Information System
=====

Name: Akshat Singh
Student ID: GF202344124
Course: Computer Science Engineering
Semester: 5th Semester
Email: akshat.singh@university.edu

Current Subjects:
```

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... imple.txt # blocking-read.js # non-blocking-read.js () package.json # math.js # settimeout.js ▶ ...

▼ P 3 NODE JS

# app.js

# blocking-read.js

# math.js

# non-blocking-read.js

() package.json

sample.txt

# settimeout.js

# settimeout.js > ...

```
1
2 function fetchUserData() {
3   console.log('Fetching user data...');
4
5   setTimeout(() => {
6     console.log('Data received');
7
8     const userData = {
9       name: 'Akshat',
10      email: 'Akshat@example.com'
11    };
12
13    console.log('User:', userData);
14  }, 2000);
15 }
16
17
18
19 fetchUserData();
```

PROBLEMS

OUTPUT

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PORTS

Filter

Code

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```
-----
5. Script execution completed.
6. Notice: All console.log statements execute in order

[Done] exited with code=0 in 0.159 seconds

[Running] node "d:\p 3 node js\settimeout.js"
Fetching user data...
Data received
User: { name: 'Akshat', email: 'AKshat@example.com' }

[Done] exited with code=0 in 2.186 seconds
```

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