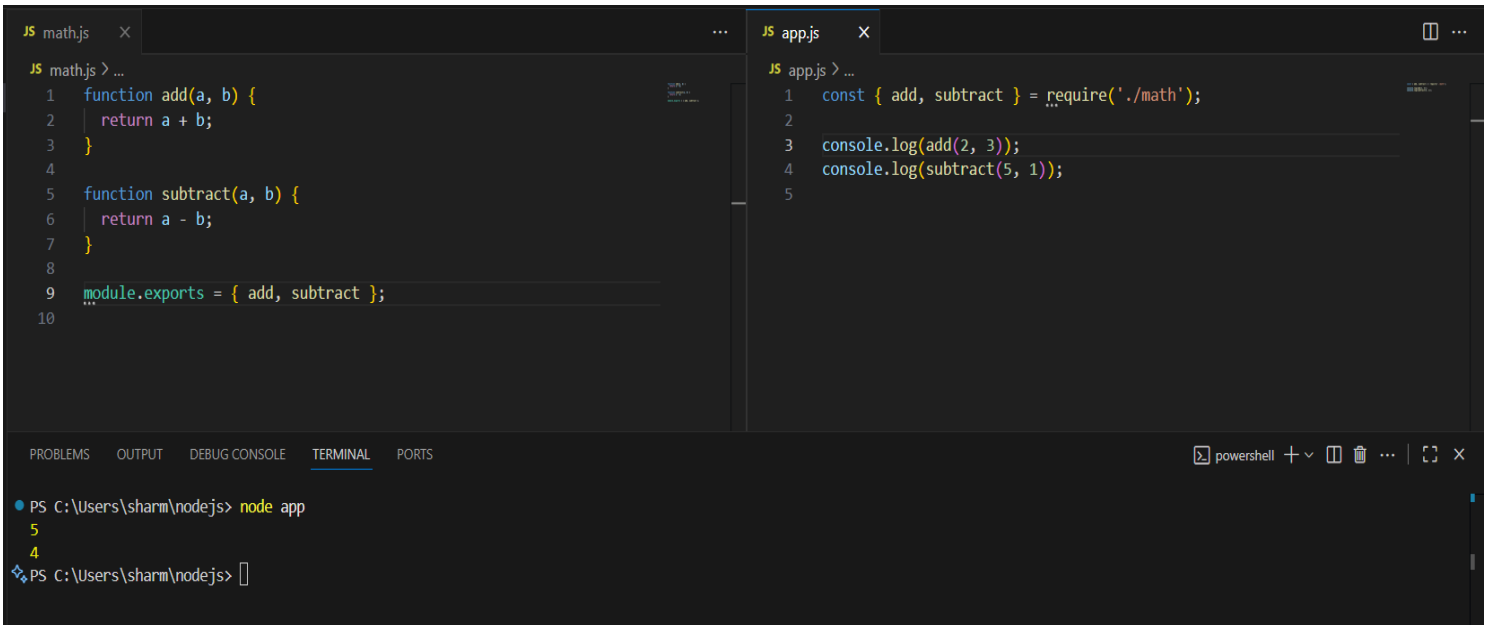
Practical – 3

1. Modules

- **Task:**
  - Create a file called **math.js** to export add and subtract functions.
  - Import these functions into **app.js** and use them.

Output:



2. File System (Blocking vs Non-Blocking)

- **Task:**
  - Write two scripts—one for blocking file read and one for non-blocking file read.

Output:

Blocking.js

```
1  const fs = require('fs');
2  const data = fs.readFileSync('test.txt', 'utf8');
3  console.log(data);
4  console.log('Read Complete');
5
```

```
PS C:\Users\sharm\nodejs> node Blocking
hello world
Read Complete
PS C:\Users\sharm\nodejs>
```

Non-Blocking.js

```
1  const fs = require('fs');
2  fs.readFile('test.txt', 'utf8', (err, data) => {
3    if (err) throw err;
4    console.log(data);
5  });
6  console.log('Read Initiated');
7
```

```
PS C:\Users\sharm\nodejs> node Non-Blocking
Read Initiated
hello world
PS C:\Users\sharm\nodejs>
```

3. Asynchronous Programming

- **Task:**
    - Write a function that fetches user data (simulated with setTimeout) and logs "Data received".

Output: