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Semester: 7 Div: B

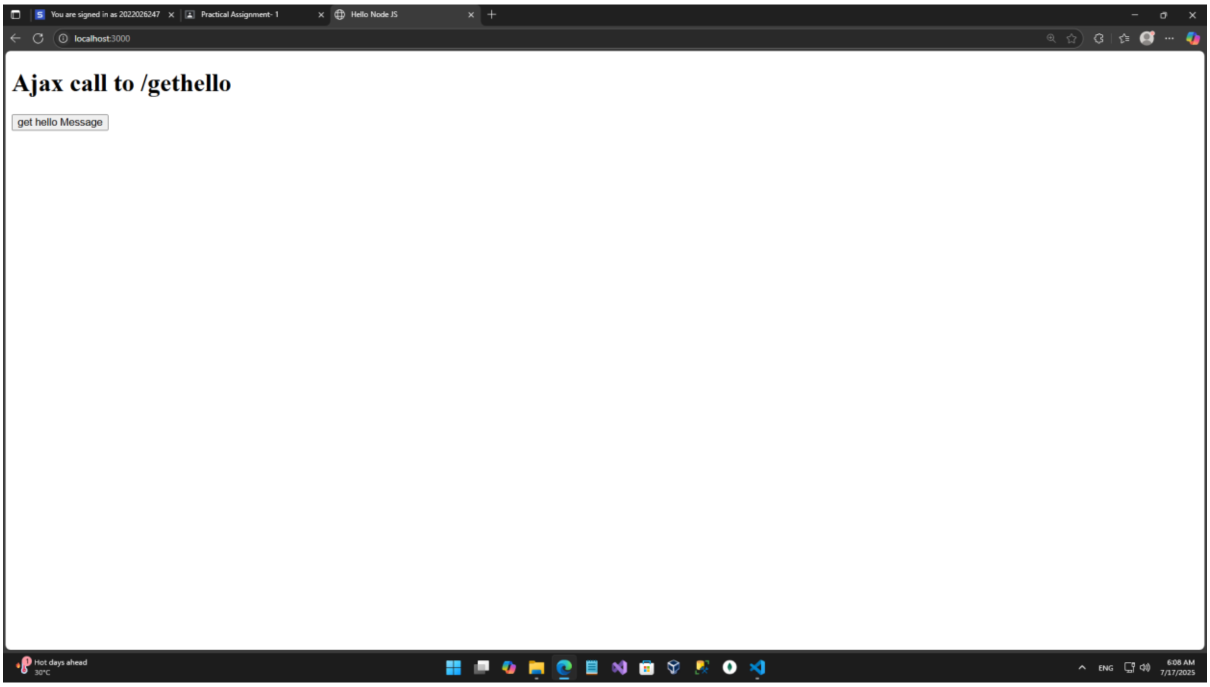
Roll No.: 78

Subject: 701- Application Development Using Fullstack

Practical Assignment – 1

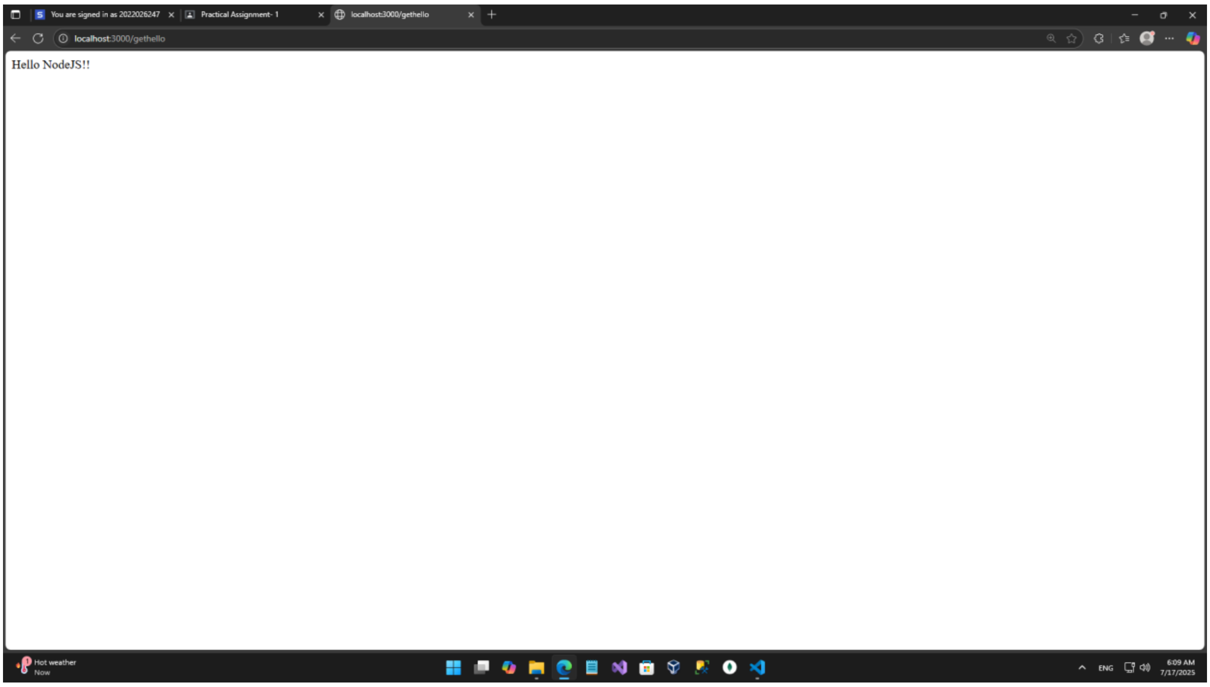
Q1.

localhost:3000



Ajax call to /gethello

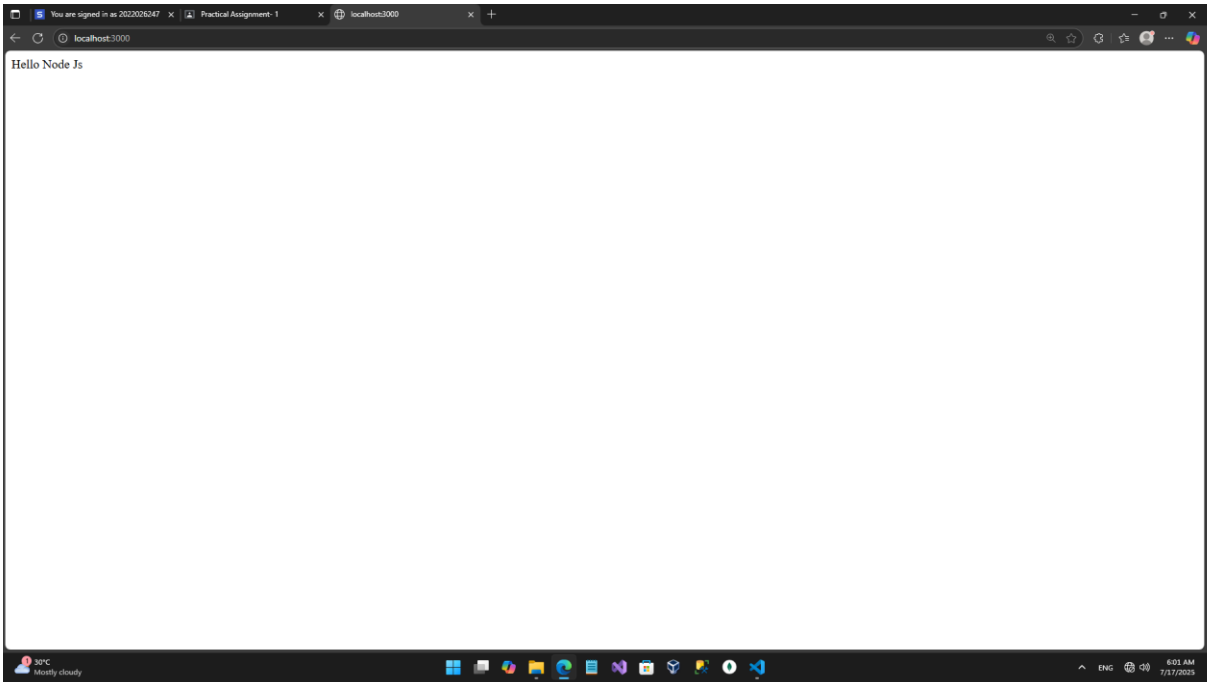
localhost:3000/gethello



Hello NodeJS!!

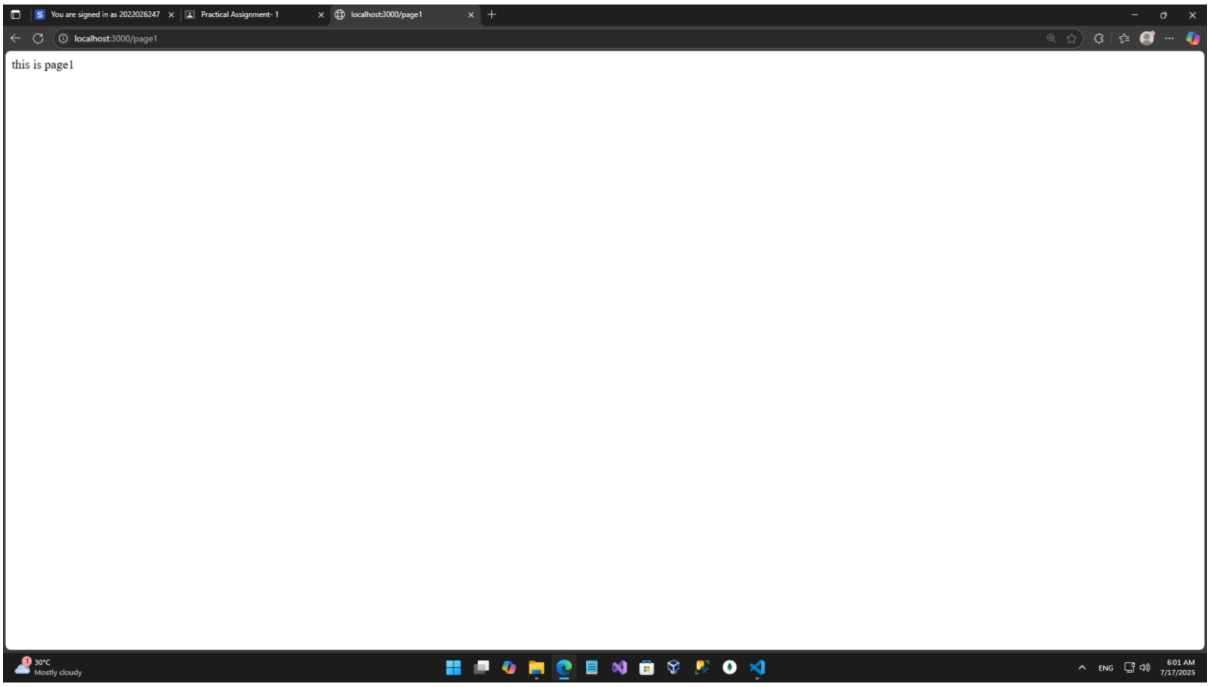
Q2.

localhost:3000



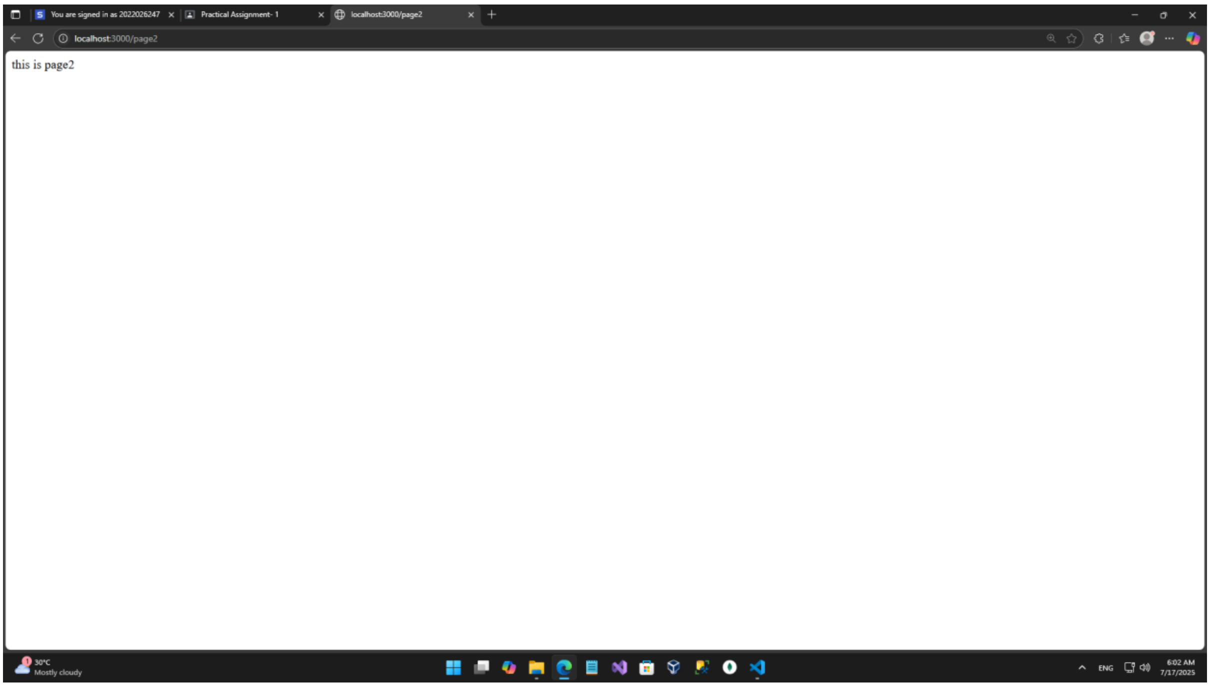
Hello Node Js

localhost:3000/page1



this is page1

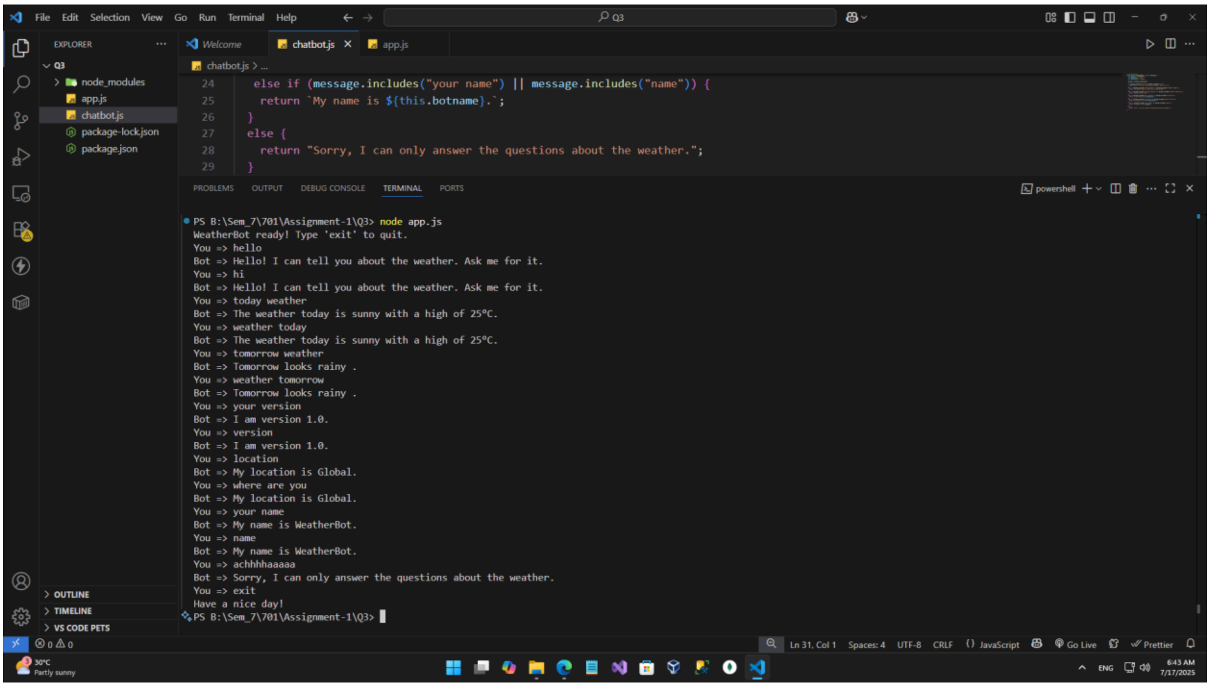
localhost:3000/page1



this is page2

Q3.

chatbot.js

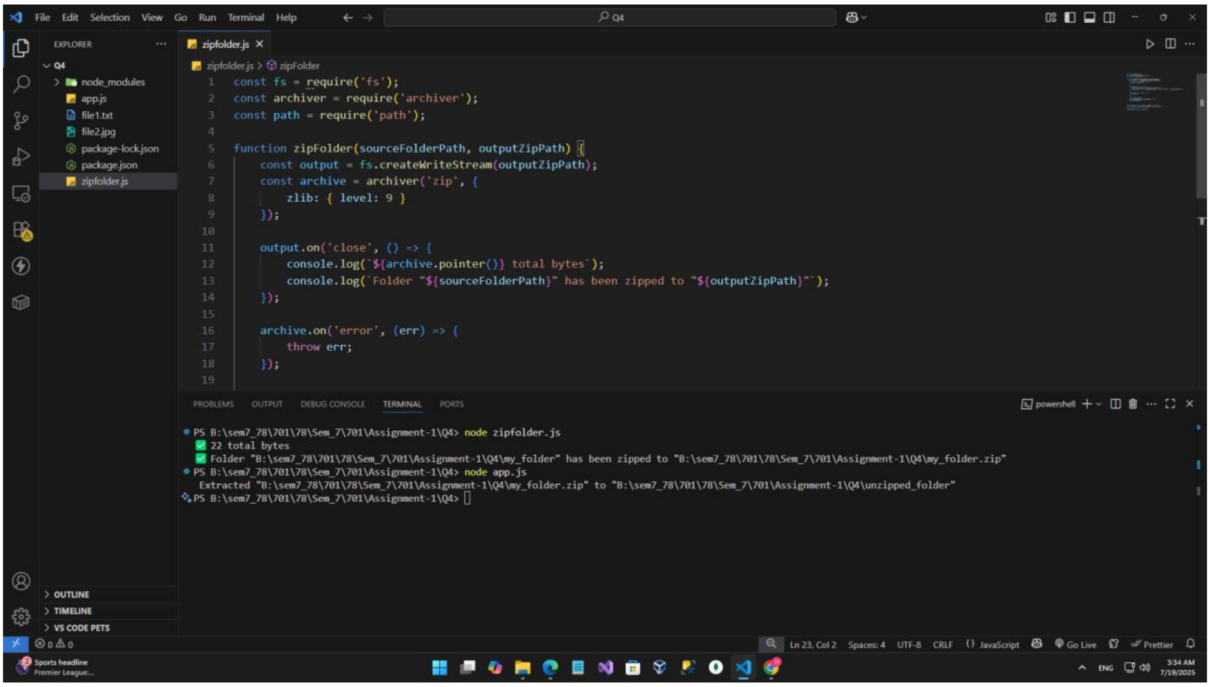

File Edit Selection View Go Run Terminal Help
Q3
EXPLORER
Q3
node_modules
app.js
chatbot.js
package-lock.json
package.json
Welcome
chatbot.js
app.js
chatbot.js > ...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
OUTLINE
TIMELINE
VS CODE PETS
Ln 31, Col 1 Spaces: 4 UTF-8 CRLF JavaScript Go Live Prettier

```javascript
   else if (message.includes("your name") || message.includes("name")) {
    return `My name is ${this.botname}.`;
  }
  else {
    return "Sorry, I can only answer the questions about the weather.";
  }
```

```
PS B:\Sem_7\701\Assignment-1\Q3> node app.js
WeatherBot ready! Type 'exit' to quit.
You => hello
Bot => Hello! I can tell you about the weather. Ask me for it.
You => hi
Bot => Hello! I can tell you about the weather. Ask me for it.
You => today weather
Bot => The weather today is sunny with a high of 25°C.
You => weather today
Bot => The weather today is sunny with a high of 25°C.
You => tomorrow weather
Bot => Tomorrow looks rainy .
You => weather tomorrow
Bot => Tomorrow looks rainy .
You => your version
Bot => I am version 1.0.
You => version
Bot => I am version 1.0.
You => location
Bot => My location is Global.
You => where are you
Bot => My location is Global.
You => your name
Bot => My name is WeatherBot.
You => name
Bot => My name is WeatherBot.
You => achhhhaaaaa
Bot => Sorry, I can only answer the questions about the weather.
You => exit
Have a nice day!
PS B:\Sem_7\701\Assignment-1\Q3>
```

Q4.

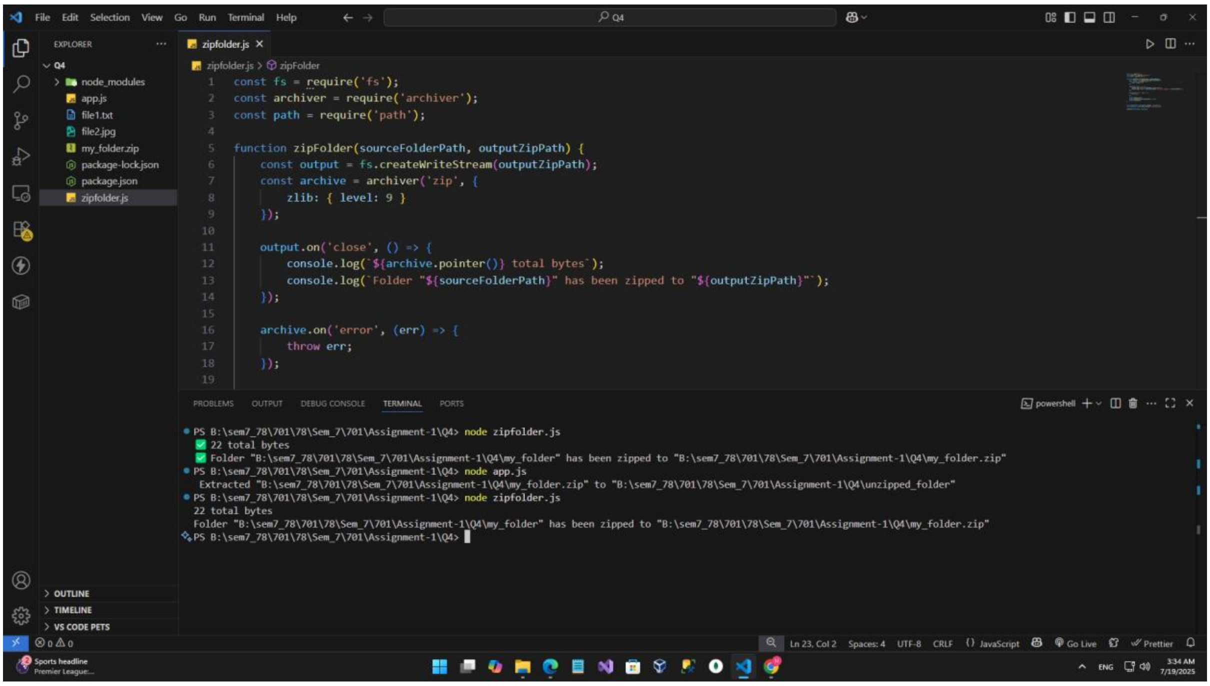
Before zipped



```javascript
const fs = require('fs');
const archiver = require('archiver');
const path = require('path');

function zipFolder(sourceFolderPath, outputZipPath) {
    const output = fs.createWriteStream(outputZipPath);
    const archive = archiver('zip', {
        zlib: { level: 9 }
    });

    output.on('close', () => {
        console.log(`${archive.pointer()} total bytes`);
        console.log(`Folder "${sourceFolderPath}" has been zipped to "${outputZipPath}"`);
    });

    archive.on('error', (err) => {
        throw err;
    });

```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4> node zipfolder.js
✅ 22 total bytes
✅ Folder "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\my_folder" has been zipped to "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\my_folder.zip"
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4> node app.js
 Extracted "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\my_folder.zip" to "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\unzipped_folder"
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4>
```

After zipped

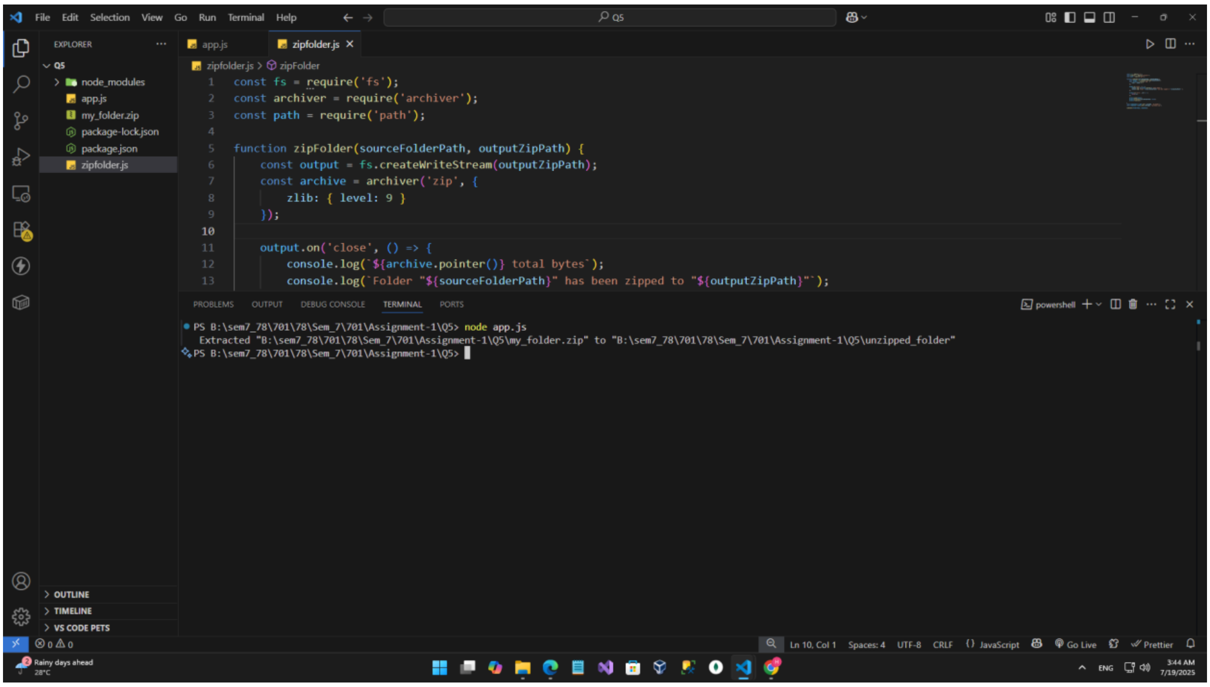


```javascript
const fs = require('fs');
const archiver = require('archiver');
const path = require('path');

function zipFolder(sourceFolderPath, outputZipPath) {
    const output = fs.createWriteStream(outputZipPath);
    const archive = archiver('zip', {
        zlib: { level: 9 }
    });

    output.on('close', () => {
        console.log(`${archive.pointer()} total bytes`);
        console.log(`Folder "${sourceFolderPath}" has been zipped to "${outputZipPath}"`);
    });

    archive.on('error', (err) => {
        throw err;
    });

```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4> node zipfolder.js
✅ 22 total bytes
✅ Folder "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\my_folder" has been zipped to "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\my_folder.zip"
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4> node app.js
 Extracted "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\my_folder.zip" to "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\unzipped_folder"
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4> node zipfolder.js
22 total bytes
Folder "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\my_folder" has been zipped to "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4\my_folder.zip"
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q4>
```

Q5.

Unzipped folder

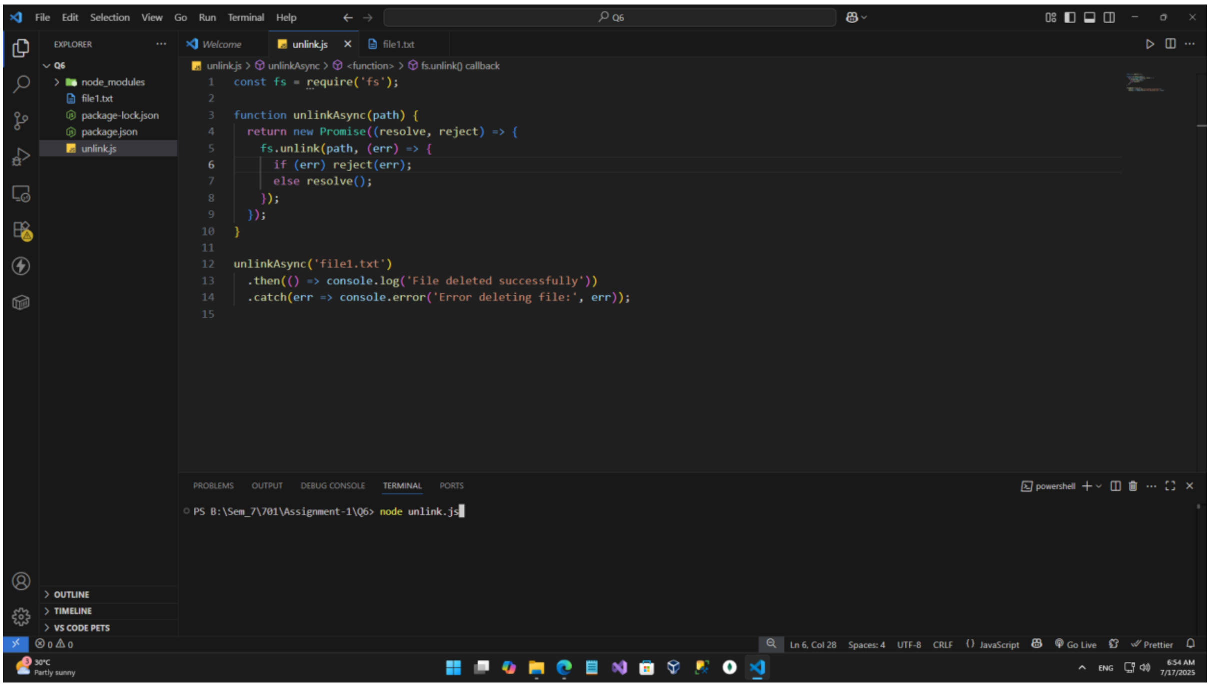


```javascript
const fs = require('fs');
const archiver = require('archiver');
const path = require('path');

function zipFolder(sourceFolderPath, outputZipPath) {
    const output = fs.createWriteStream(outputZipPath);
    const archive = archiver('zip', {
        zlib: { level: 9 }
    });

    output.on('close', () => {
        console.log(`${archive.pointer()} total bytes`);
        console.log(`Folder "${sourceFolderPath}" has been zipped to "${outputZipPath}"`);
```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q5> node app.js
 Extracted "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q5\my_folder.zip" to "B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q5\unzipped_folder"
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q5> 
```

Q6.

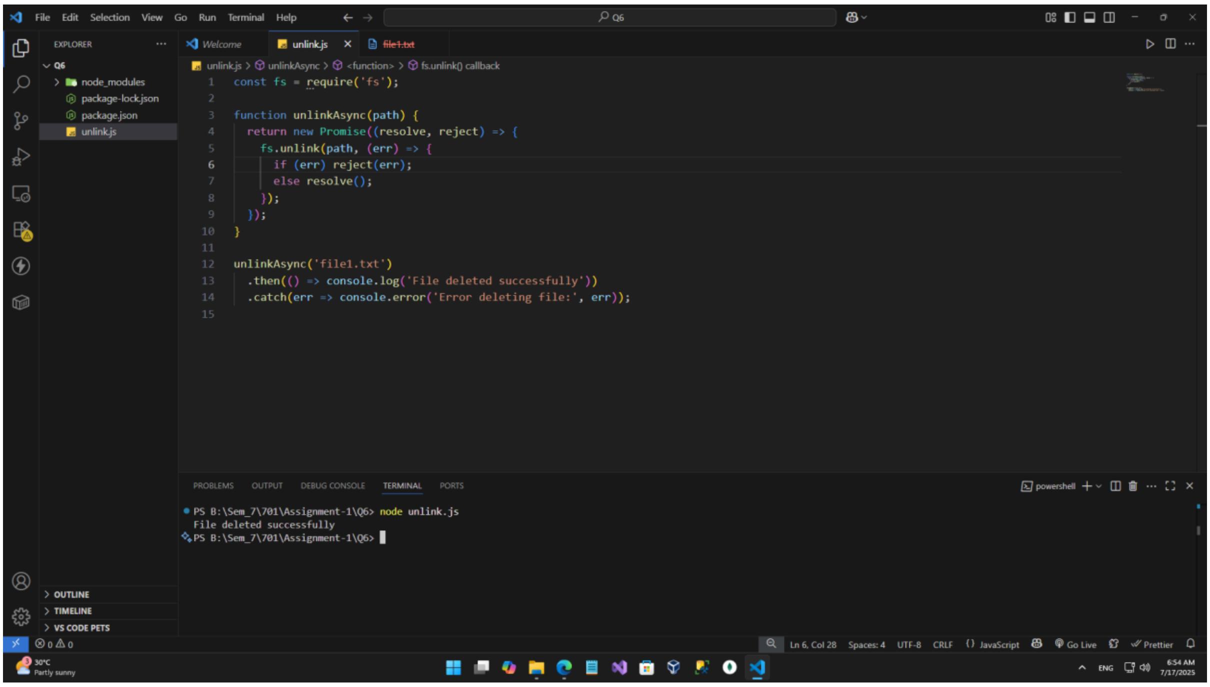
File before unlink



```javascript
const fs = require('fs');

function unlinkAsync(path) {
  return new Promise((resolve, reject) => {
    fs.unlink(path, (err) => {
      if (err) reject(err);
      else resolve();
    });
  });
}

unlinkAsync('file1.txt')
  .then(() => console.log('File deleted successfully'))
  .catch(err => console.error('Error deleting file:', err));
```

```
PS B:\Sem_7\701\Assignment-1\Q6> node unlink.js
```

File after unlink

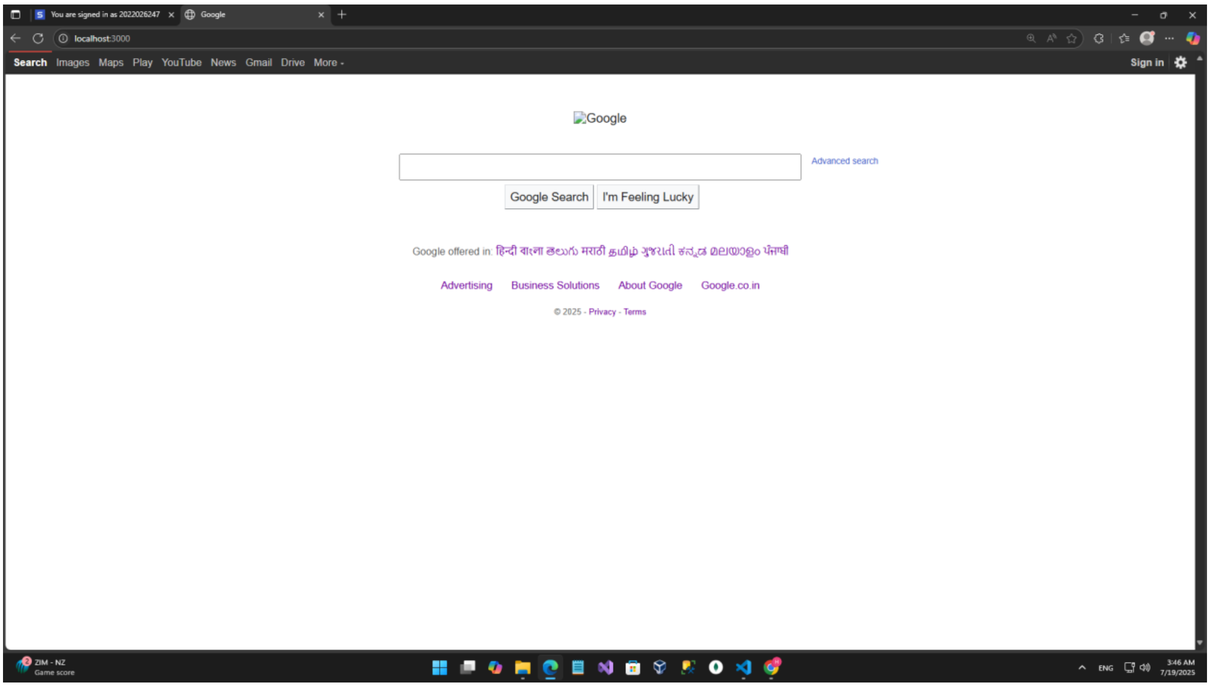


```javascript
const fs = require('fs');

function unlinkAsync(path) {
  return new Promise((resolve, reject) => {
    fs.unlink(path, (err) => {
      if (err) reject(err);
      else resolve();
    });
  });
}

unlinkAsync('file1.txt')
  .then(() => console.log('File deleted successfully'))
  .catch(err => console.error('Error deleting file:', err));
```

```
PS B:\Sem_7\701\Assignment-1\Q6> node unlink.js
File deleted successfully
PS B:\Sem_7\701\Assignment-1\Q6> 
```

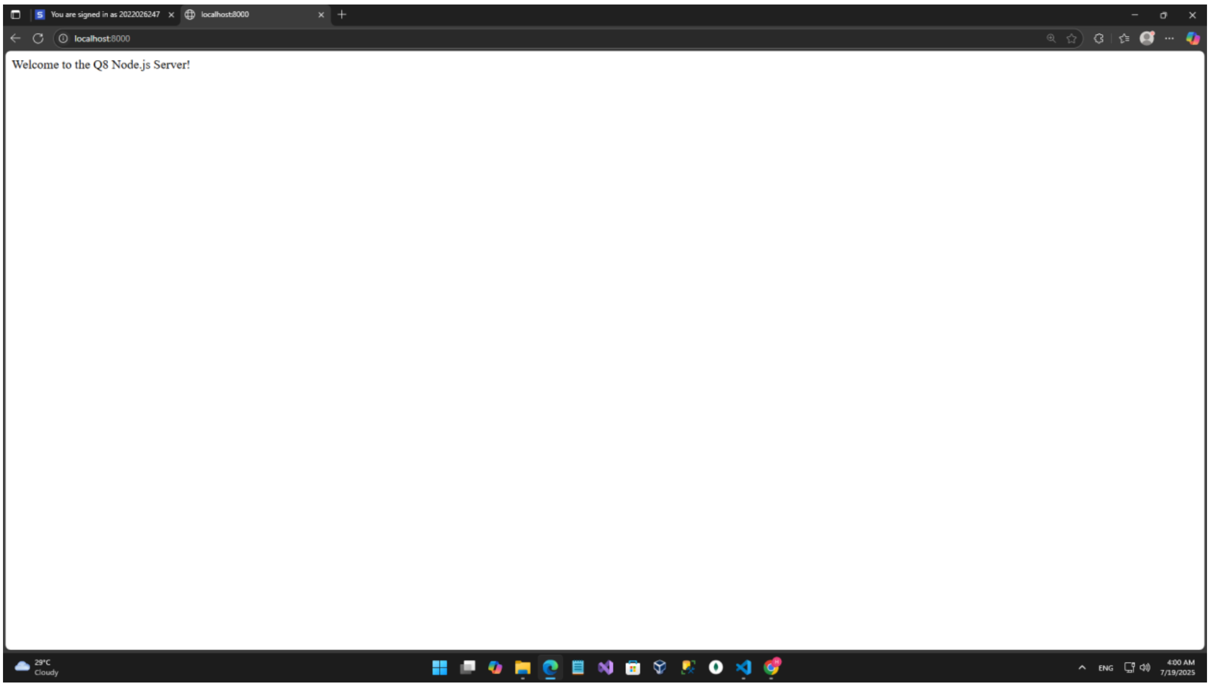
Q7.

Fetching google page



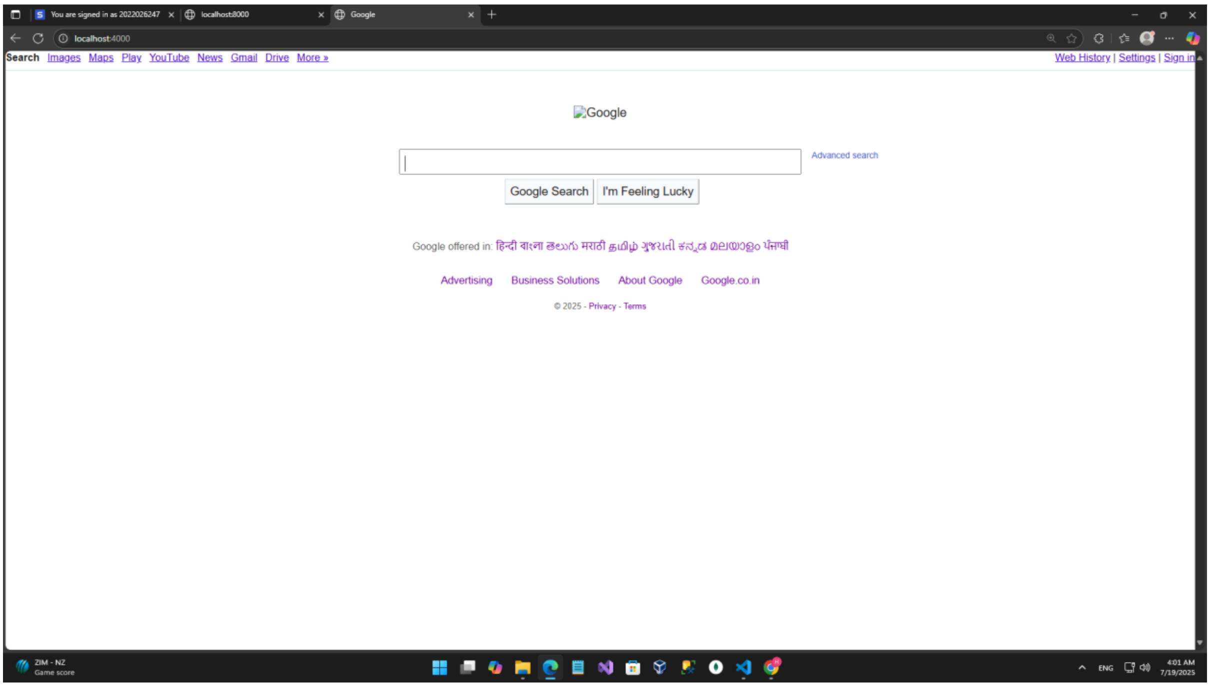
Q8.

Server script - npm start



Welcome to the Q8 Node.js Server!

npm run fetch-google



Google offered in: हिन्दी বাংলা తెలుగు मराठी தமிழ் ગુજરાતી ಕನ್ನಡ മലയാളം ਪੰਜਾਬੀ

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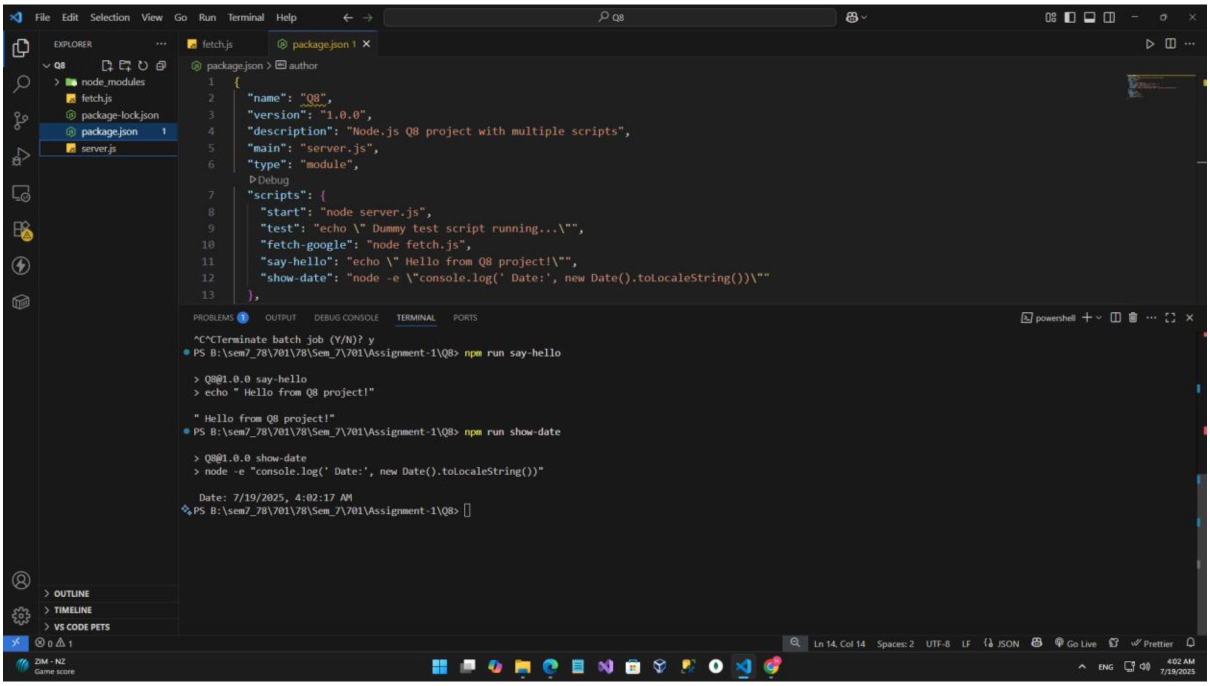
other test scripts

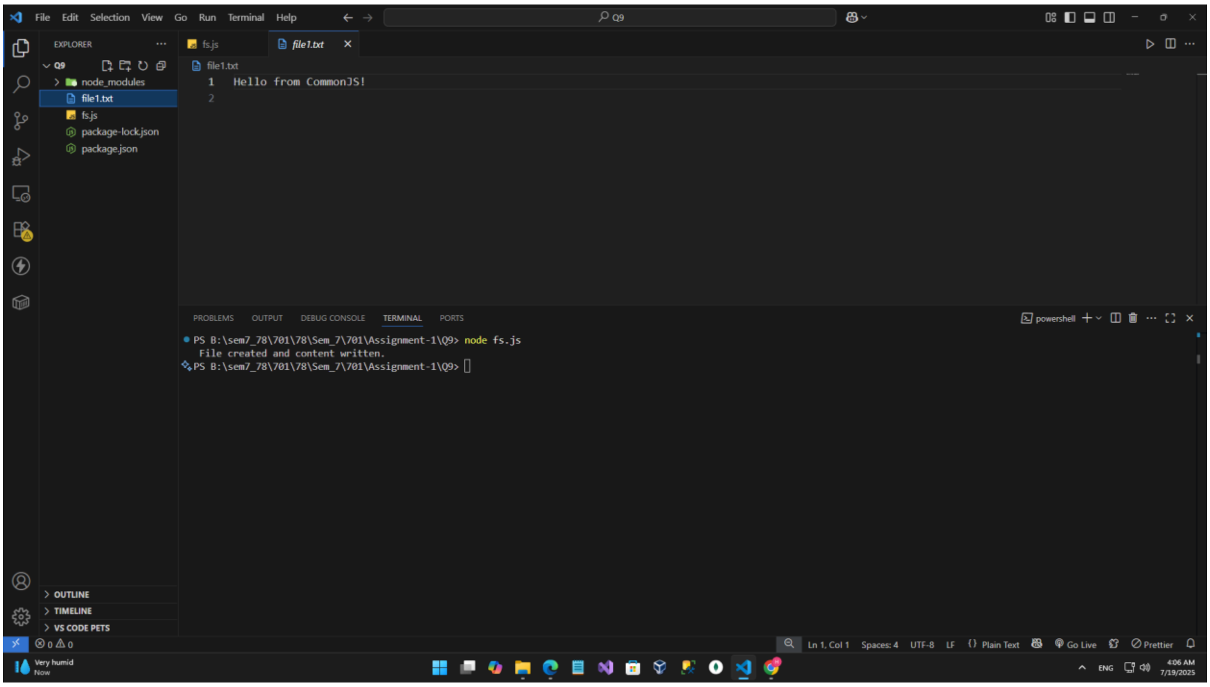


```json
{
  "name": "Q8",
  "version": "1.0.0",
  "description": "Node.js Q8 project with multiple scripts",
  "main": "server.js",
  "type": "module",
  "scripts": {
    "start": "node server.js",
    "test": "echo \" Dummy test script running...\"",
    "fetch-google": "node fetch.js",
    "say-hello": "echo \" Hello from Q8 project!\"",
    "show-date": "node -e \"console.log(' Date:', new Date().toLocaleString())\""
  },
```

```
^C^CTerminate batch job (Y/N)? y
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q8> npm run say-hello

> Q8@1.0.0 say-hello
> echo " Hello from Q8 project!"

" Hello from Q8 project!"
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q8> npm run show-date

> Q8@1.0.0 show-date
> node -e "console.log(' Date:', new Date().toLocaleString())"

 Date: 7/19/2025, 4:02:17 AM
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q8> 
```

Q9.

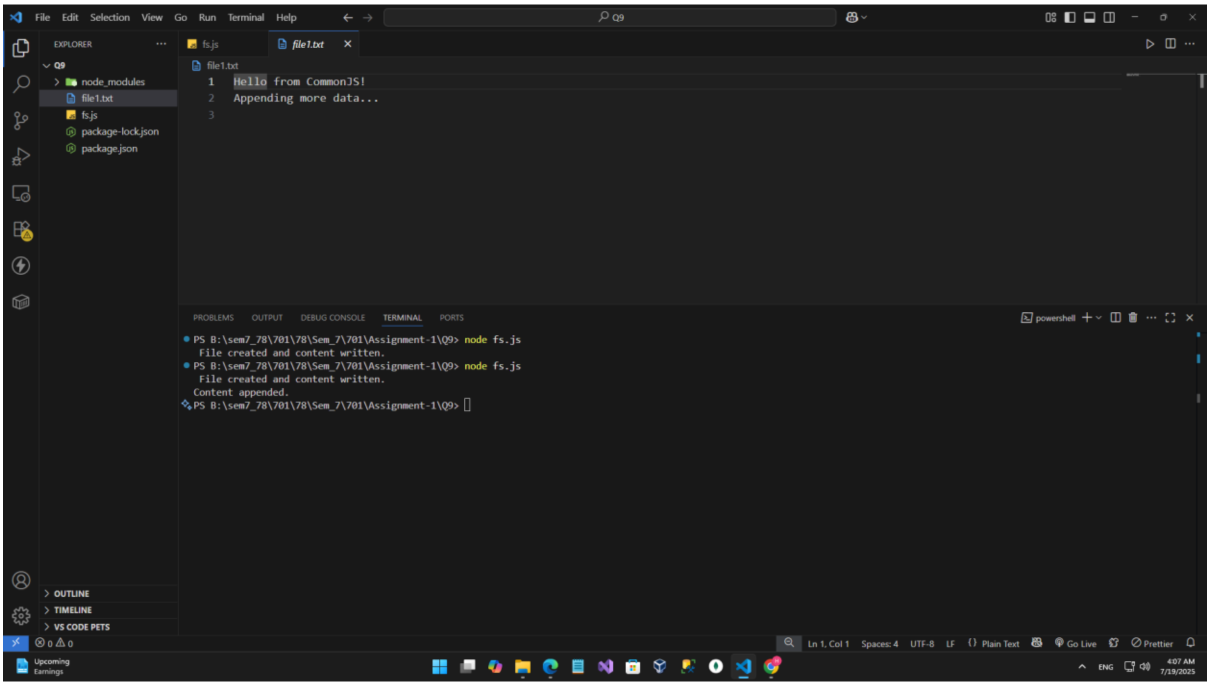
Create file



```
Hello from CommonJS!
```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> 
```

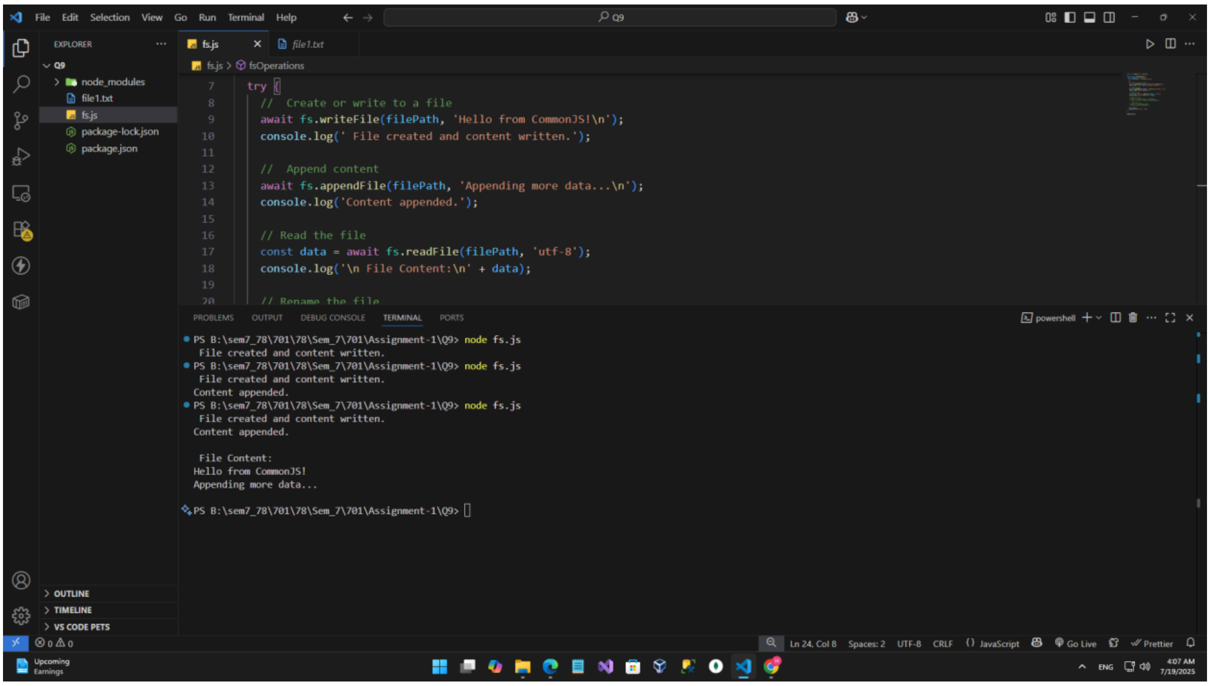
Append file



```
Hello from CommonJS!
Appending more data...

```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
Content appended.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> 
```

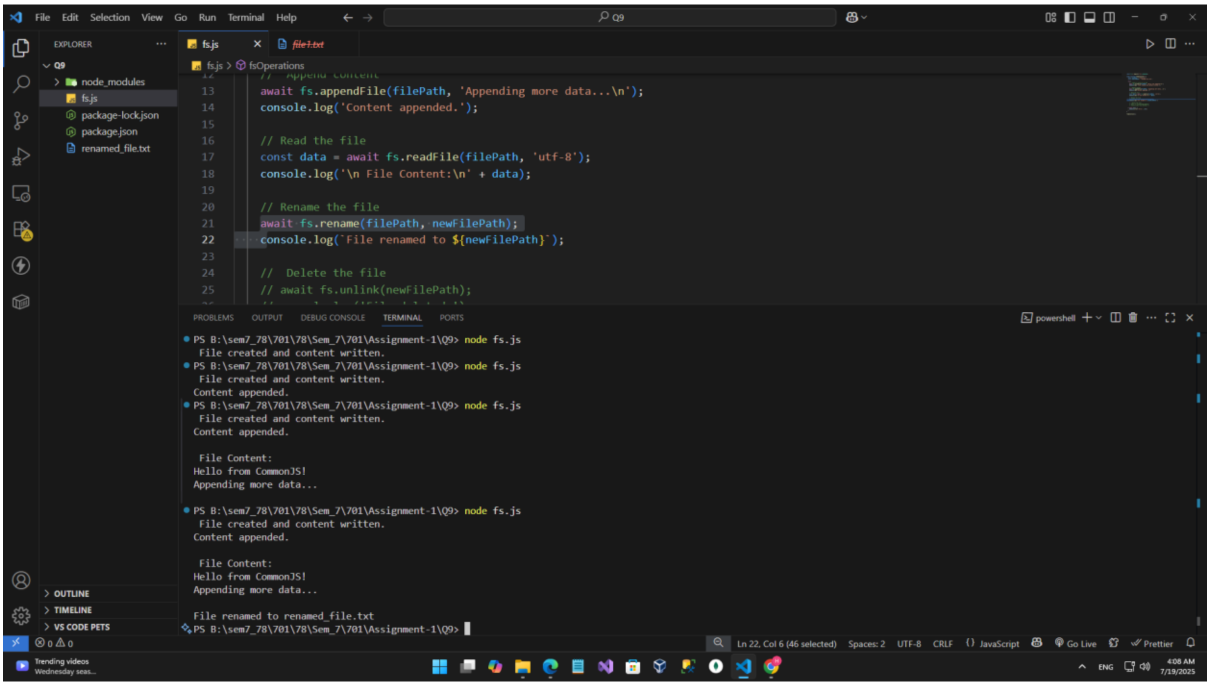
Read file



```javascript
  try {
    //  Create or write to a file
    await fs.writeFile(filePath, 'Hello from CommonJS!\n');
    console.log(' File created and content written.');

    //  Append content
    await fs.appendFile(filePath, 'Appending more data...\n');
    console.log('Content appended.');

    // Read the file
    const data = await fs.readFile(filePath, 'utf-8');
    console.log('\n File Content:\n' + data);

    // Rename the file
```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
Content appended.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
Content appended.

 File Content:
Hello from CommonJS!
Appending more data...

PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> 
```

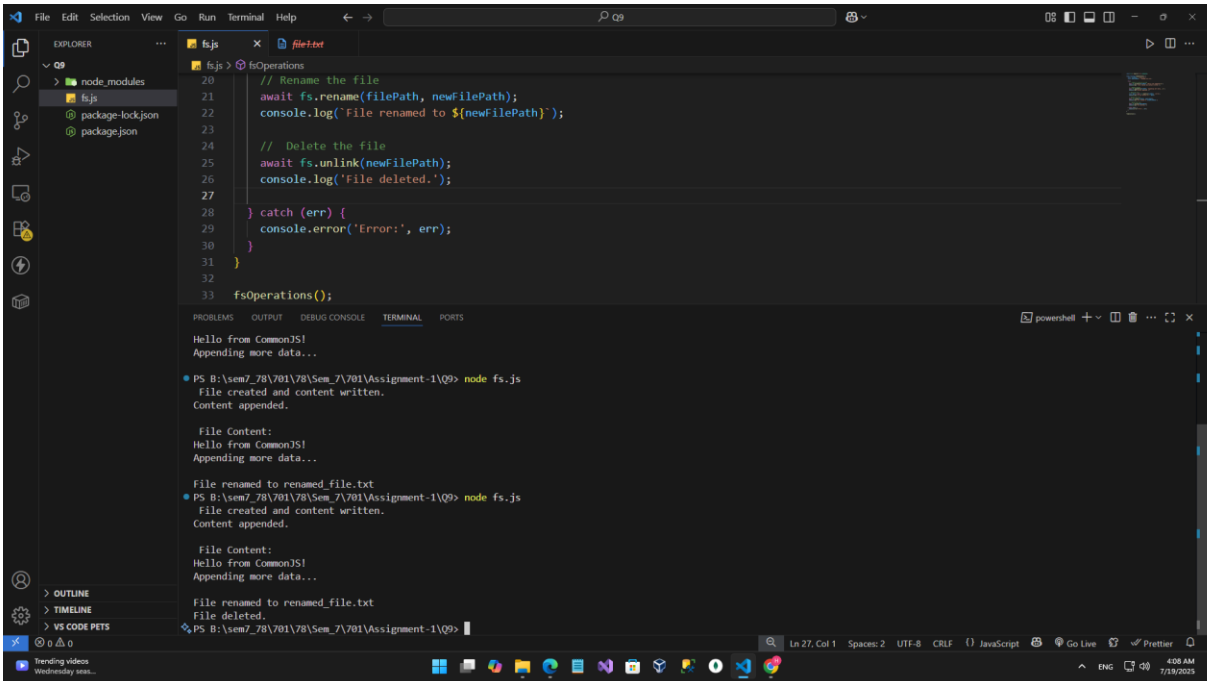
Rename file



```
    //  Append content
    await fs.appendFile(filePath, 'Appending more data...\n');
    console.log('Content appended.');

    // Read the file
    const data = await fs.readFile(filePath, 'utf-8');
    console.log('\n File Content:\n' + data);

    // Rename the file
    await fs.rename(filePath, newFilePath);
    console.log(`File renamed to ${newFilePath}`);

    //  Delete the file
    // await fs.unlink(newFilePath);
```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
Content appended.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
Content appended.

 File Content:
Hello from CommonJS!
Appending more data...

PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
Content appended.

 File Content:
Hello from CommonJS!
Appending more data...

File renamed to renamed_file.txt
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9>
```

Deleting the file

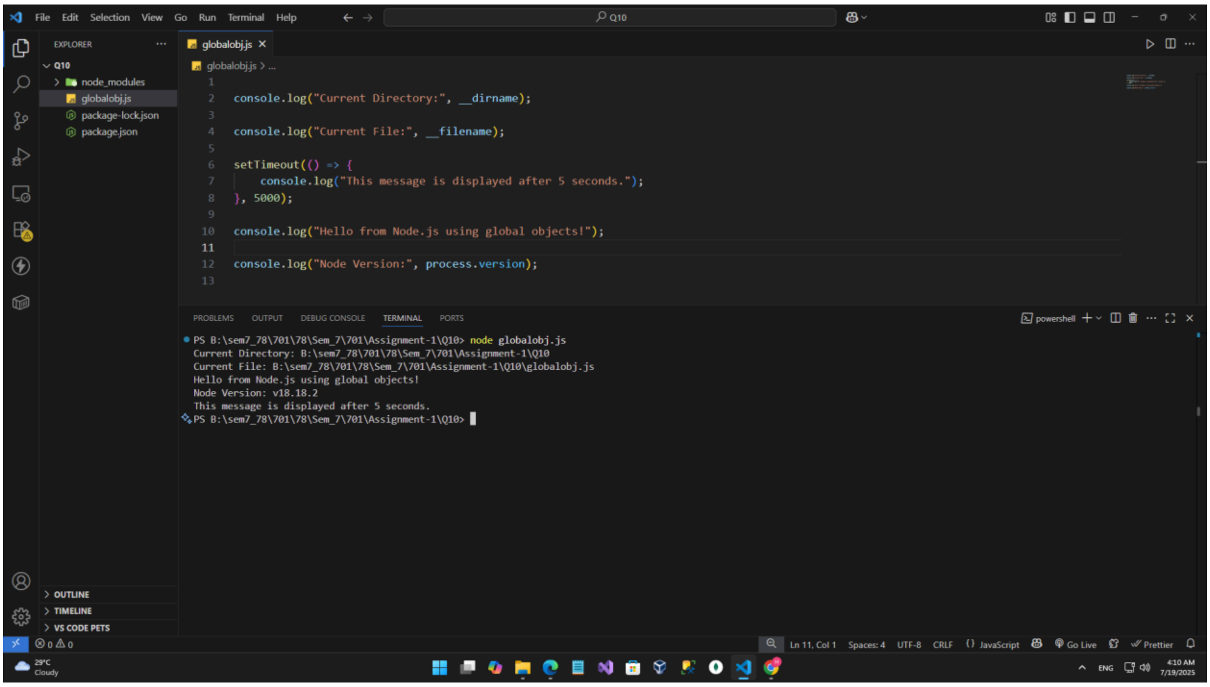


```
    // Rename the file
    await fs.rename(filePath, newFilePath);
    console.log(`File renamed to ${newFilePath}`);

    //  Delete the file
    await fs.unlink(newFilePath);
    console.log('File deleted.');

  } catch (err) {
    console.error('Error:', err);
  }
}

fsOperations();
```

```
Hello from CommonJS!
Appending more data...

PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
Content appended.

 File Content:
Hello from CommonJS!
Appending more data...

File renamed to renamed_file.txt
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9> node fs.js
 File created and content written.
Content appended.

 File Content:
Hello from CommonJS!
Appending more data...

File renamed to renamed_file.txt
File deleted.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q9>
```

Q10.

Global objects

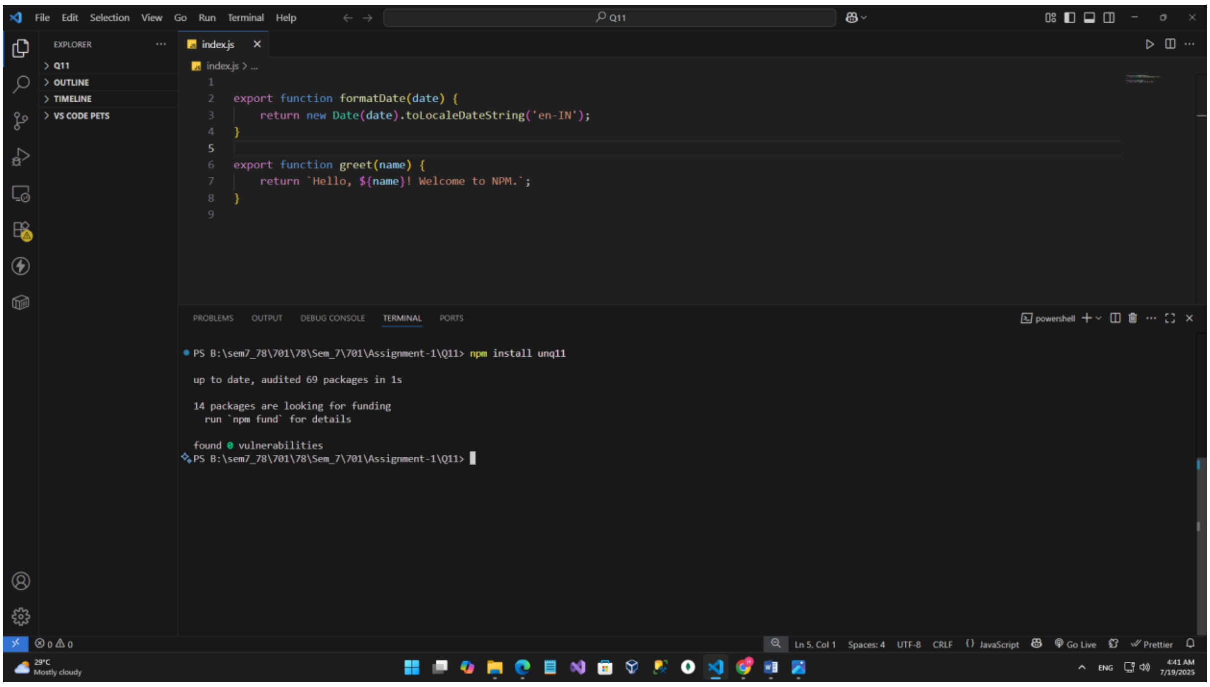


```
console.log("Current Directory:", __dirname);

console.log("Current File:", __filename);

setTimeout(() => {
    console.log("This message is displayed after 5 seconds.");
}, 5000);

console.log("Hello from Node.js using global objects!");

console.log("Node Version:", process.version);

```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q10> node globalobj.js
Current Directory: B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q10
Current File: B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q10\globalobj.js
Hello from Node.js using global objects!
Node Version: v18.18.2
This message is displayed after 5 seconds.
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q10>
```

Q11.

npm package


File Edit Selection View Go Run Terminal Help
Q11
EXPLORER
Q11
OUTLINE
TIMELINE
VS CODE PETS
index.js
index.js > ...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
Ln 5, Col 1 Spaces: 4 UTF-8 CRLF {} JavaScript Go Live Prettier
29°C Mostly cloudy
ENG 4:41 AM 7/19/2025

```
export function formatDate(date) {
    return new Date(date).toLocaleDateString('en-IN');
}

export function greet(name) {
    return `Hello, ${name}! Welcome to NPM.`;
}

```

```
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q11> npm install unq11

up to date, audited 69 packages in 1s

14 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS B:\sem7_78\701\78\Sem_7\701\Assignment-1\Q11>
```