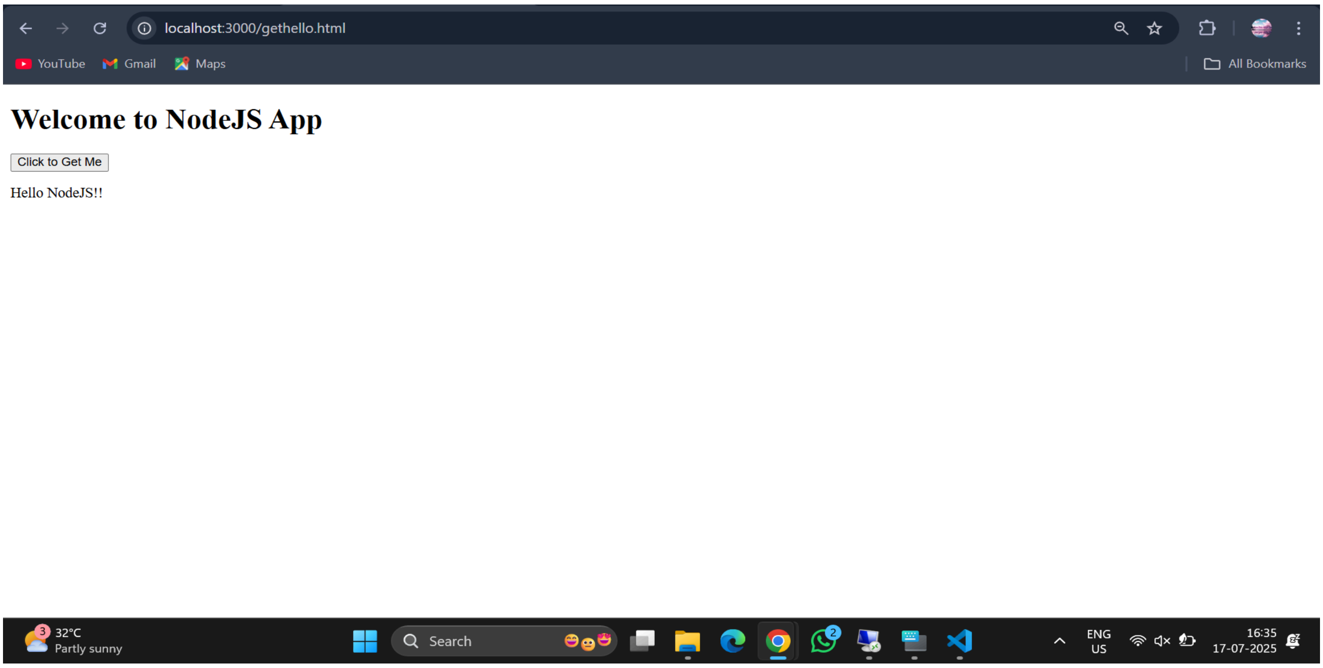
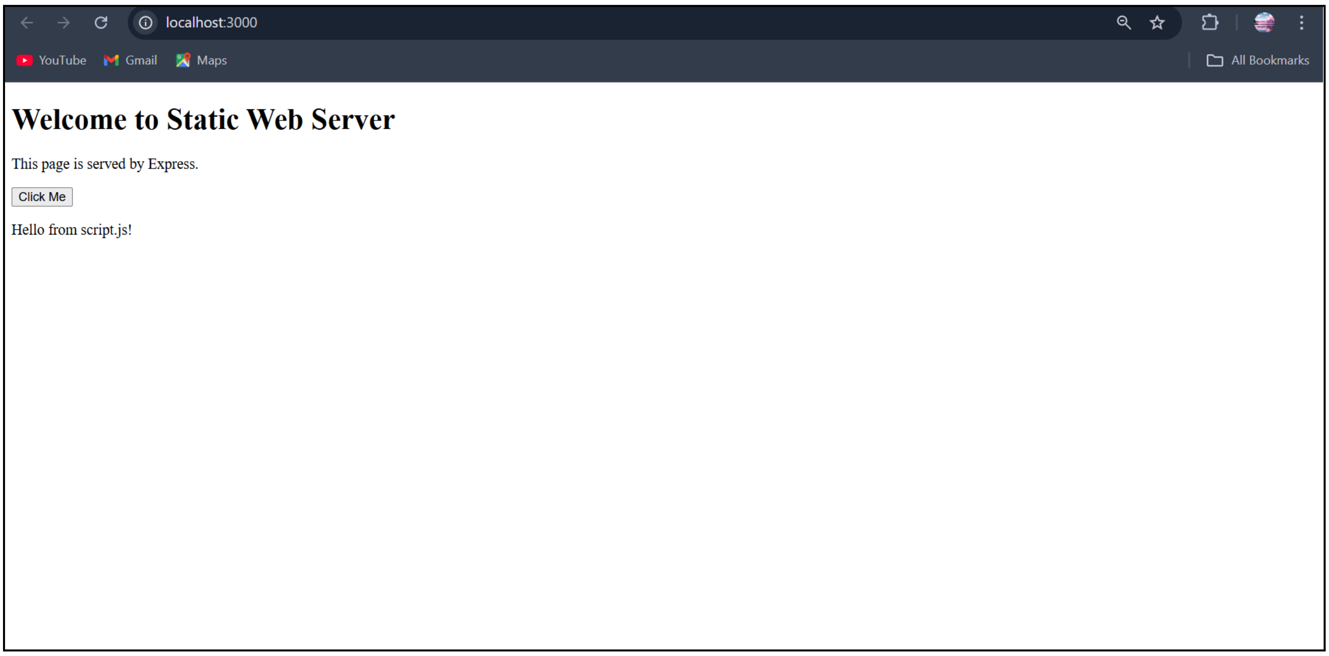
Ques 1:



Welcome to NodeJS App

Hello NodeJS!!

Ques 2:

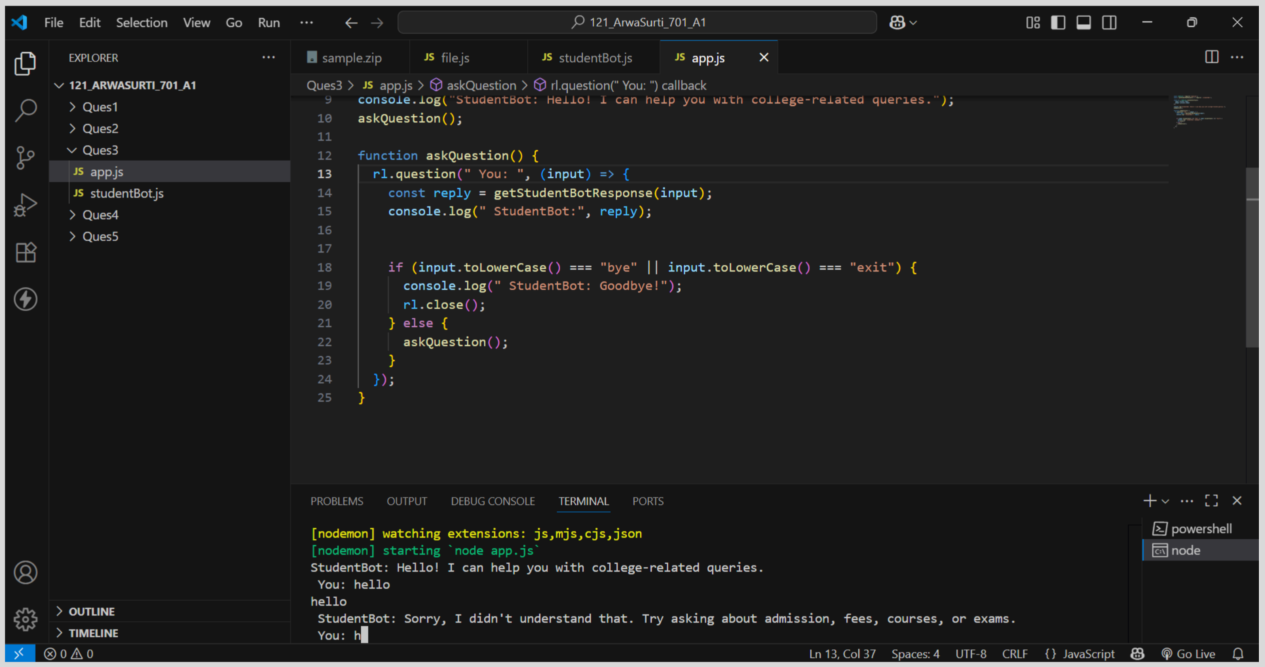


Welcome to Static Web Server

This page is served by Express.

Hello from script.js!

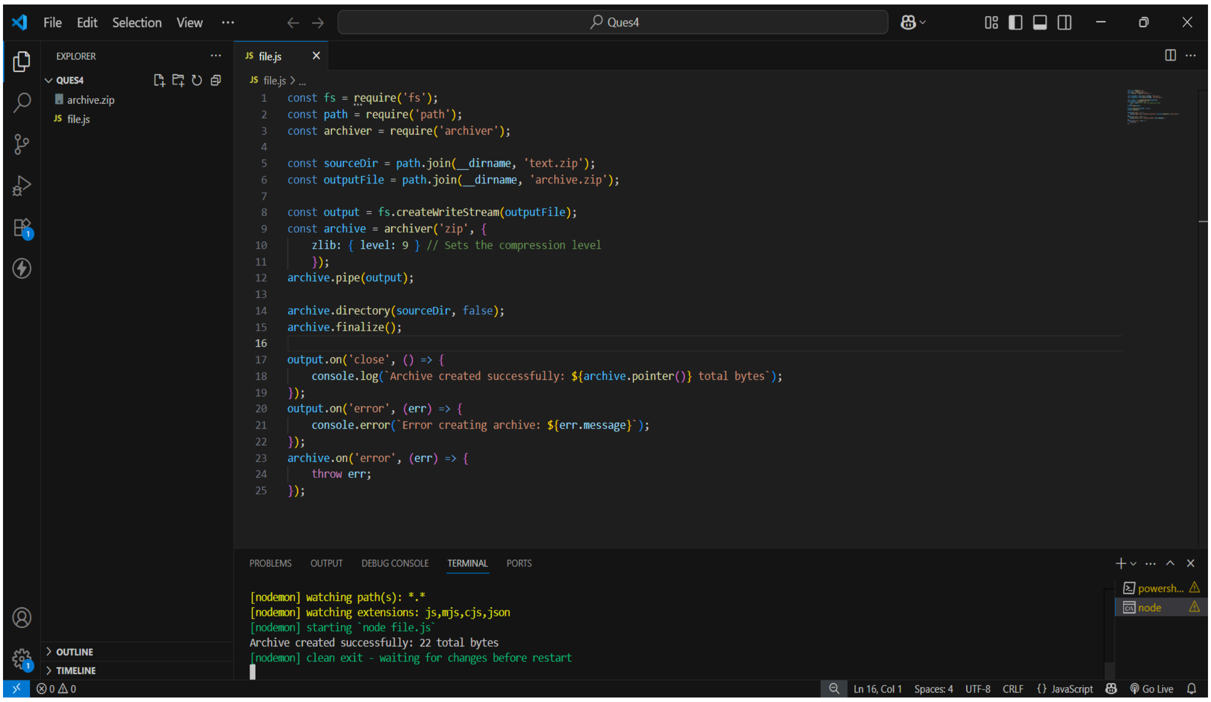
Ques 3:



```javascript
console.log("StudentBot: Hello! I can help you with college-related queries.");
askQuestion();

function askQuestion() {
  rl.question(" You: ", (input) => {
    const reply = getStudentBotResponse(input);
    console.log(" StudentBot:", reply);


    if (input.toLowerCase() === "bye" || input.toLowerCase() === "exit") {
      console.log(" StudentBot: Goodbye!");
      rl.close();
    } else {
      askQuestion();
    }
  });
}
```

```
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node app.js`
StudentBot: Hello! I can help you with college-related queries.
 You: hello
hello
 StudentBot: Sorry, I didn't understand that. Try asking about admission, fees, courses, or exams.
 You: h
```

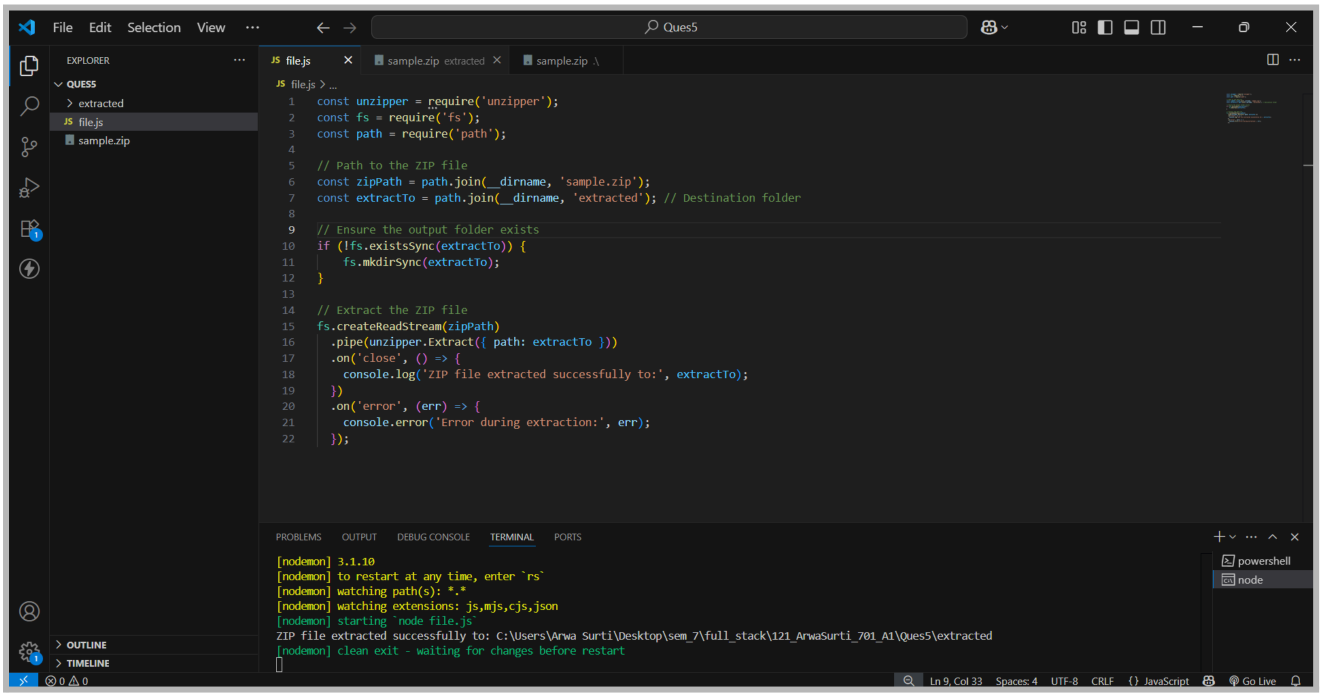
Ques 4:



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

const sourceDir = path.join(__dirname, 'text.zip');
const outputFile = path.join(__dirname, 'archive.zip');

const output = fs.createWriteStream(outputFile);
const archive = archiver('zip', {
    zlib: { level: 9 } // Sets the compression level
    });
archive.pipe(output);

archive.directory(sourceDir, false);
archive.finalize();

output.on('close', () => {
    console.log(`Archive created successfully: ${archive.pointer()} total bytes`);
});
output.on('error', (err) => {
    console.error(`Error creating archive: ${err.message}`);
});
archive.on('error', (err) => {
    throw err;
});
```

```
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node file.js`
Archive created successfully: 22 total bytes
[nodemon] clean exit - waiting for changes before restart
```

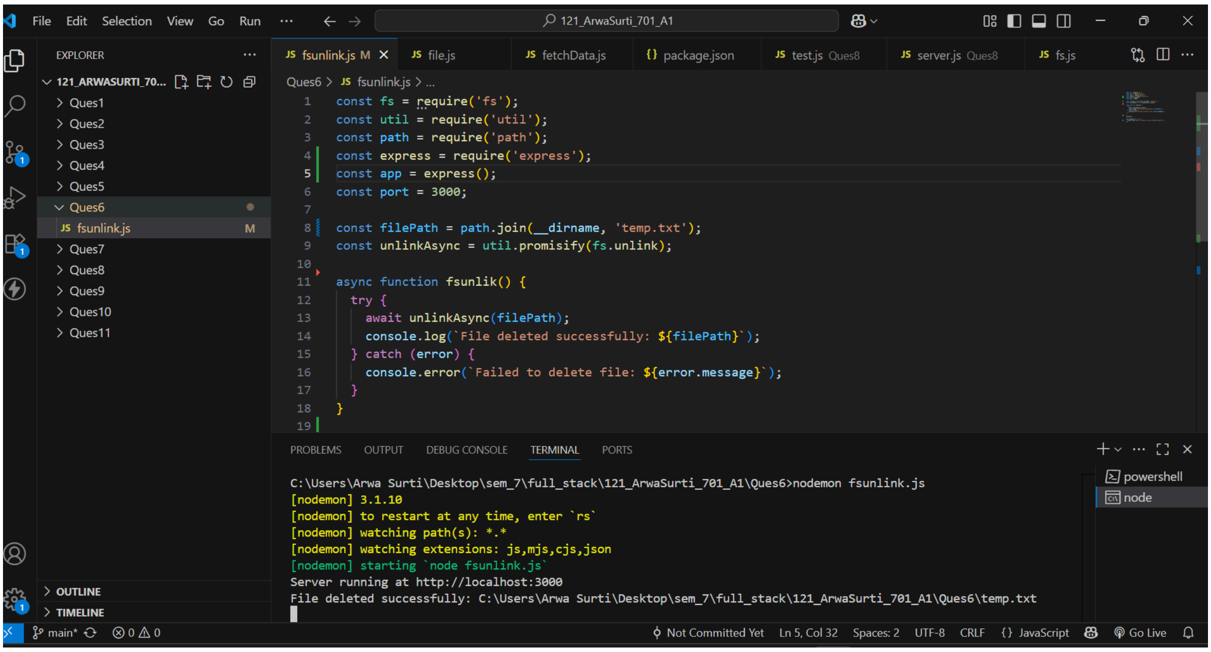
Ques 5:



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

// Path to the ZIP file
const zipPath = path.join(__dirname, 'sample.zip');
const extractTo = path.join(__dirname, 'extracted'); // Destination folder

// Ensure the output folder exists
if (!fs.existsSync(extractTo)) {
    fs.mkdirSync(extractTo);
}

// Extract the ZIP file
fs.createReadStream(zipPath)
  .pipe(unzipper.Extract({ path: extractTo }))
  .on('close', () => {
    console.log('ZIP file extracted successfully to:', extractTo);
  })
  .on('error', (err) => {
    console.error('Error during extraction:', err);
  });
```

```
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node file.js`
ZIP file extracted successfully to: C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques5\extracted
[nodemon] clean exit - waiting for changes before restart
```

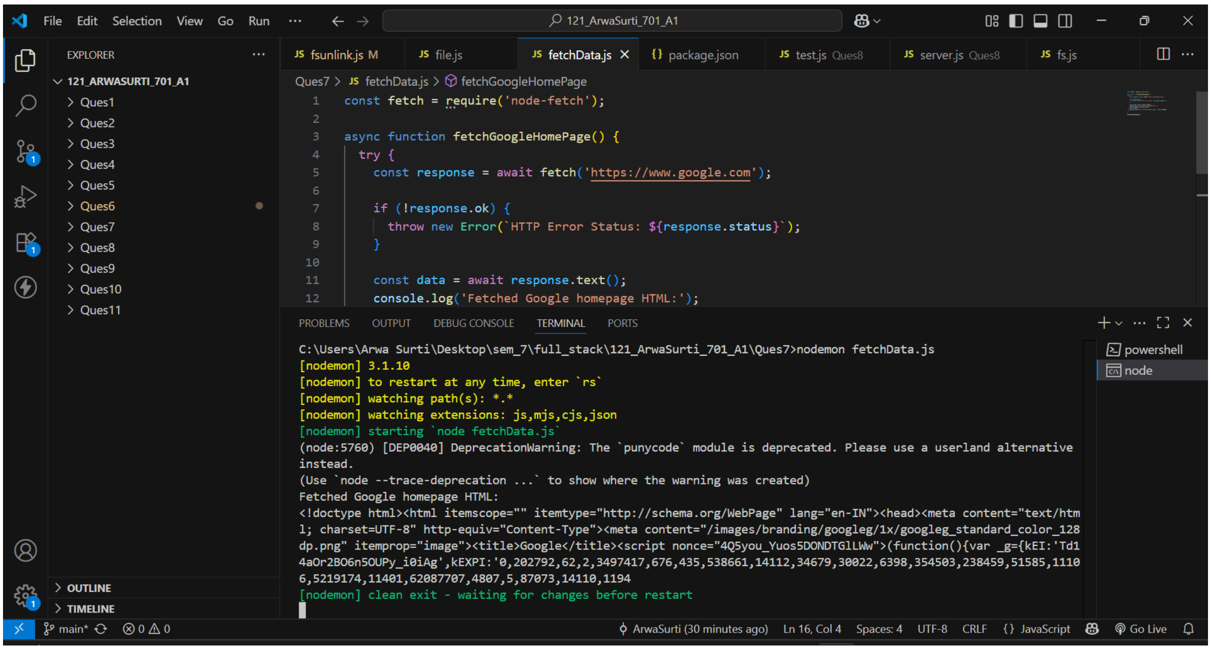
Ques 6:



```javascript
const fs = require('fs');
const util = require('util');
const path = require('path');
const express = require('express');
const app = express();
const port = 3000;

const filePath = path.join(__dirname, 'temp.txt');
const unlinkAsync = util.promisify(fs.unlink);

async function fsunlik() {
  try {
    await unlinkAsync(filePath);
    console.log(`File deleted successfully: ${filePath}`);
  } catch (error) {
    console.error(`Failed to delete file: ${error.message}`);
  }
}

```

```
C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques6>nodemon fsunlink.js
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node fsunlink.js`
Server running at http://localhost:3000
File deleted successfully: C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques6\temp.txt
```

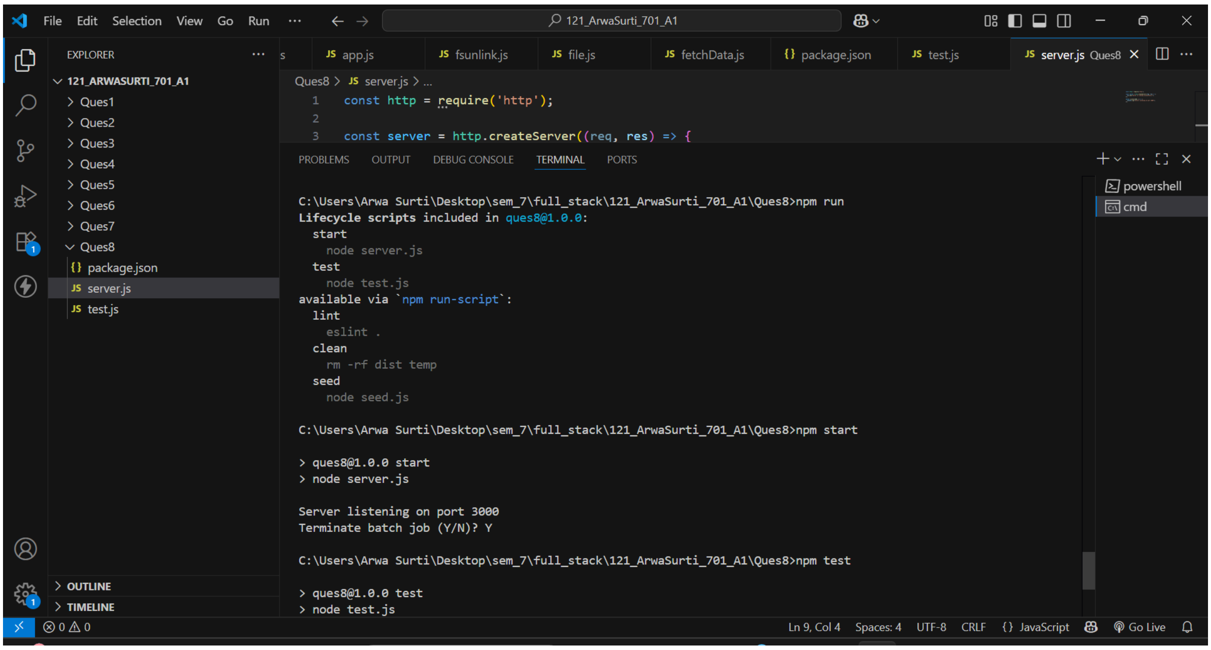
Ques 7:



```
const fetch = require('node-fetch');

async function fetchGoogleHomePage() {
  try {
    const response = await fetch('https://www.google.com');

    if (!response.ok) {
      throw new Error(`HTTP Error Status: ${response.status}`);
    }

    const data = await response.text();
    console.log('Fetched Google homepage HTML:');
```

```
C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques7>nodemon fetchData.js
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node fetchData.js`
(node:5760) [DEP0040] DeprecationWarning: The `punycode` module is deprecated. Please use a userland alternative
instead.
(Use `node --trace-deprecation ...` to show where the warning was created)
Fetched Google homepage HTML:
<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN"><head><meta content="text/htm
l; charset=UTF-8" http-equiv="Content-Type"><meta content="/images/branding/googleg/1x/googleg_standard_color_128
dp.png" itemprop="image"><title>Google</title><script nonce="4Q5you_Yuos5DONDTGlLWw">(function(){var _g={kEI:'Td1
4aOr2BO6n5OUPy_i0iAg',kEXPI:'0,202792,62,2,3497417,676,435,538661,14112,34679,30022,6398,354503,238459,51585,1110
6,5219174,11401,62087707,4807,5,87073,14110,1194
[nodemon] clean exit - waiting for changes before restart
```

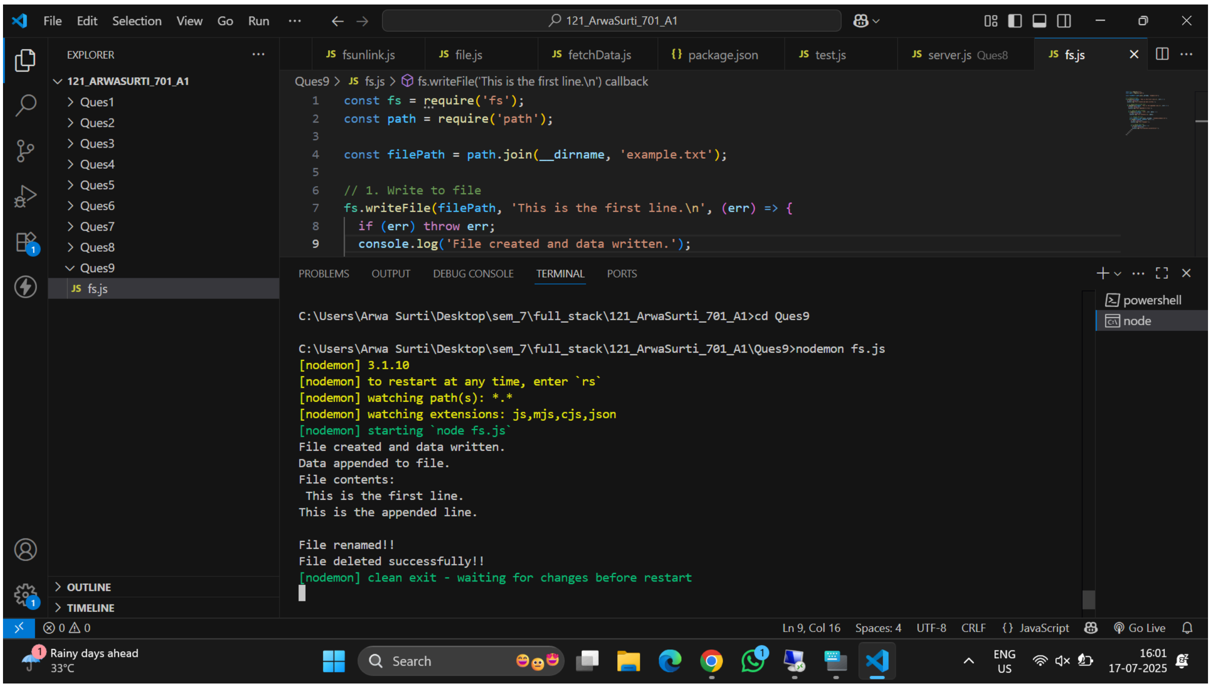
Ques 8:



```
const http = require('http');

const server = http.createServer((req, res) => {
```

```
C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques8>npm run
Lifecycle scripts included in ques8@1.0.0:
  start
    node server.js
  test
    node test.js
available via `npm run-script`:
  lint
    eslint .
  clean
    rm -rf dist temp
  seed
    node seed.js

C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques8>npm start

> ques8@1.0.0 start
> node server.js

Server listening on port 3000
Terminate batch job (Y/N)? Y

C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques8>npm test

> ques8@1.0.0 test
> node test.js
```

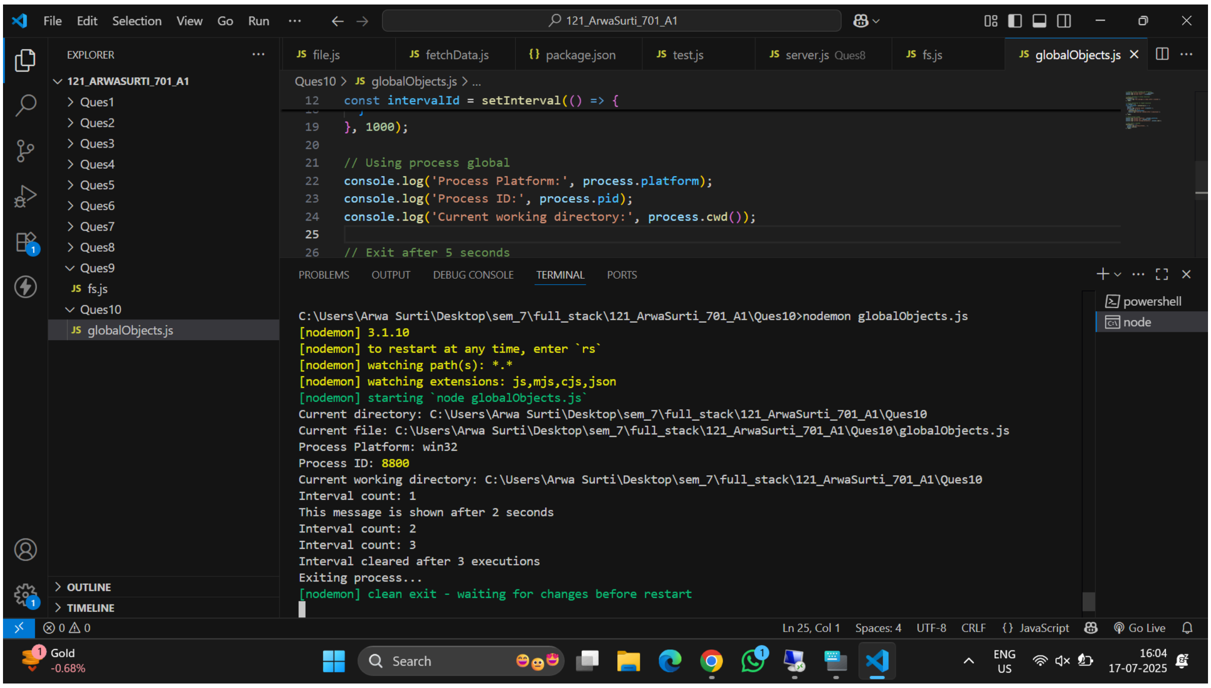
Ques 9:



```js
const fs = require('fs');
const path = require('path');

const filePath = path.join(__dirname, 'example.txt');

// 1. Write to file
fs.writeFile(filePath, 'This is the first line.\n', (err) => {
  if (err) throw err;
  console.log('File created and data written.');
```

```
C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1>cd Ques9

C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques9>nodemon fs.js
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node fs.js`
File created and data written.
Data appended to file.
File contents:
 This is the first line.
This is the appended line.

File renamed!!
File deleted successfully!!
[nodemon] clean exit - waiting for changes before restart
```

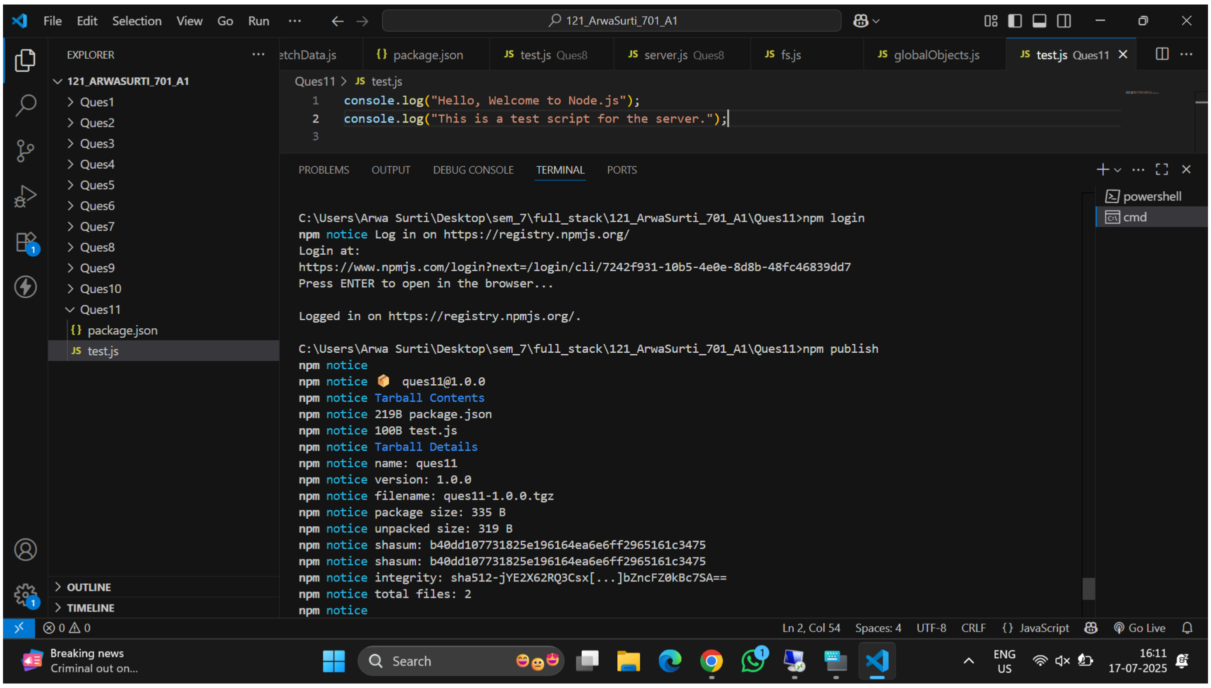
Ques 10:



```js
const intervalId = setInterval(() => {
}, 1000);

// Using process global
console.log('Process Platform:', process.platform);
console.log('Process ID:', process.pid);
console.log('Current working directory:', process.cwd());

// Exit after 5 seconds
```

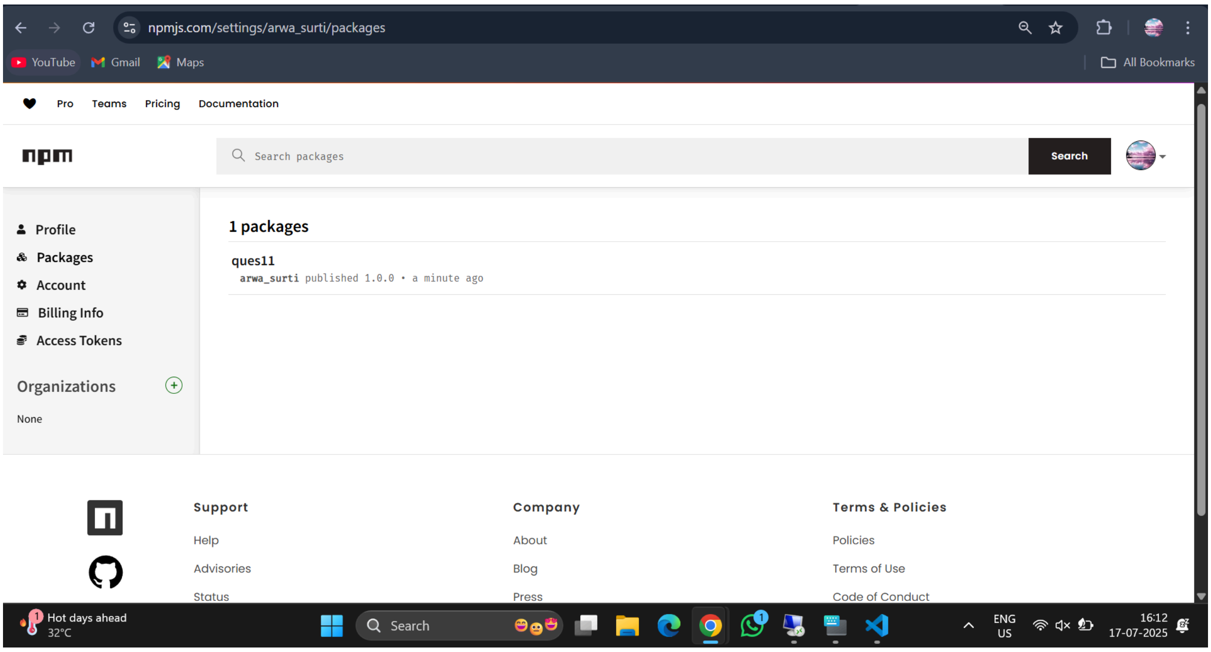
```
C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques10>nodemon globalObjects.js
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node globalObjects.js`
Current directory: C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques10
Current file: C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques10\globalObjects.js
Process Platform: win32
Process ID: 8800
Current working directory: C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques10
Interval count: 1
This message is shown after 2 seconds
Interval count: 2
Interval count: 3
Interval cleared after 3 executions
Exiting process...
[nodemon] clean exit - waiting for changes before restart
```

Ques 11:



```
console.log("Hello, Welcome to Node.js");
console.log("This is a test script for the server.");
```

```
C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques11>npm login
npm notice Log in on https://registry.npmjs.org/
Login at:
https://www.npmjs.com/login?next=/login/cli/7242f931-10b5-4e0e-8d8b-48fc46839dd7
Press ENTER to open in the browser...

Logged in on https://registry.npmjs.org/.

C:\Users\Arwa Surti\Desktop\sem_7\full_stack\121_ArwaSurti_701_A1\Ques11>npm publish
npm notice
npm notice 📦  ques11@1.0.0
npm notice Tarball Contents
npm notice 219B package.json
npm notice 100B test.js
npm notice Tarball Details
npm notice name: ques11
npm notice version: 1.0.0
npm notice filename: ques11-1.0.0.tgz
npm notice package size: 335 B
npm notice unpacked size: 319 B
npm notice shasum: b40dd107731825e196164ea6e6ff2965161c3475
npm notice shasum: b40dd107731825e196164ea6e6ff2965161c3475
npm notice integrity: sha512-jYE2X62RQ3Csx[...]bZncFZ0kBc7SA==
npm notice total files: 2
npm notice
```



1 packages

ques11
arwa_surti published 1.0.0 • a minute ago