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Roll No. : 08

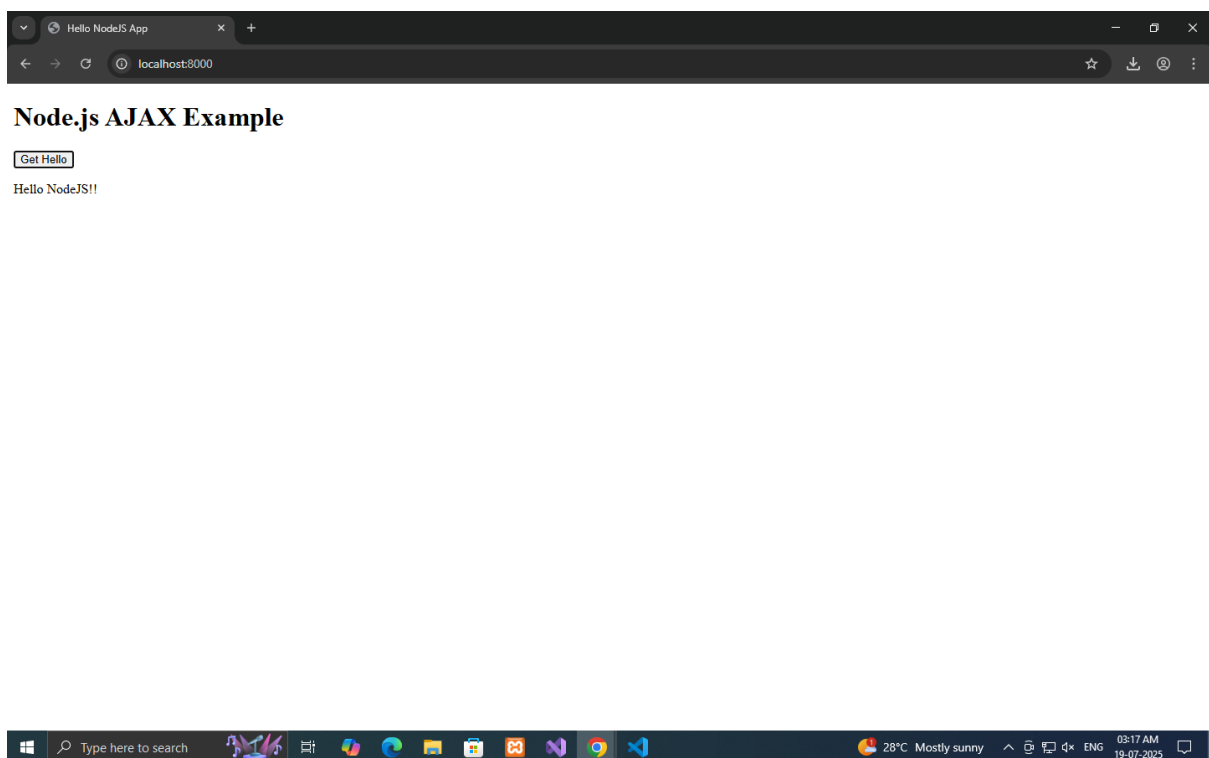
Div : A

Sem : 7th

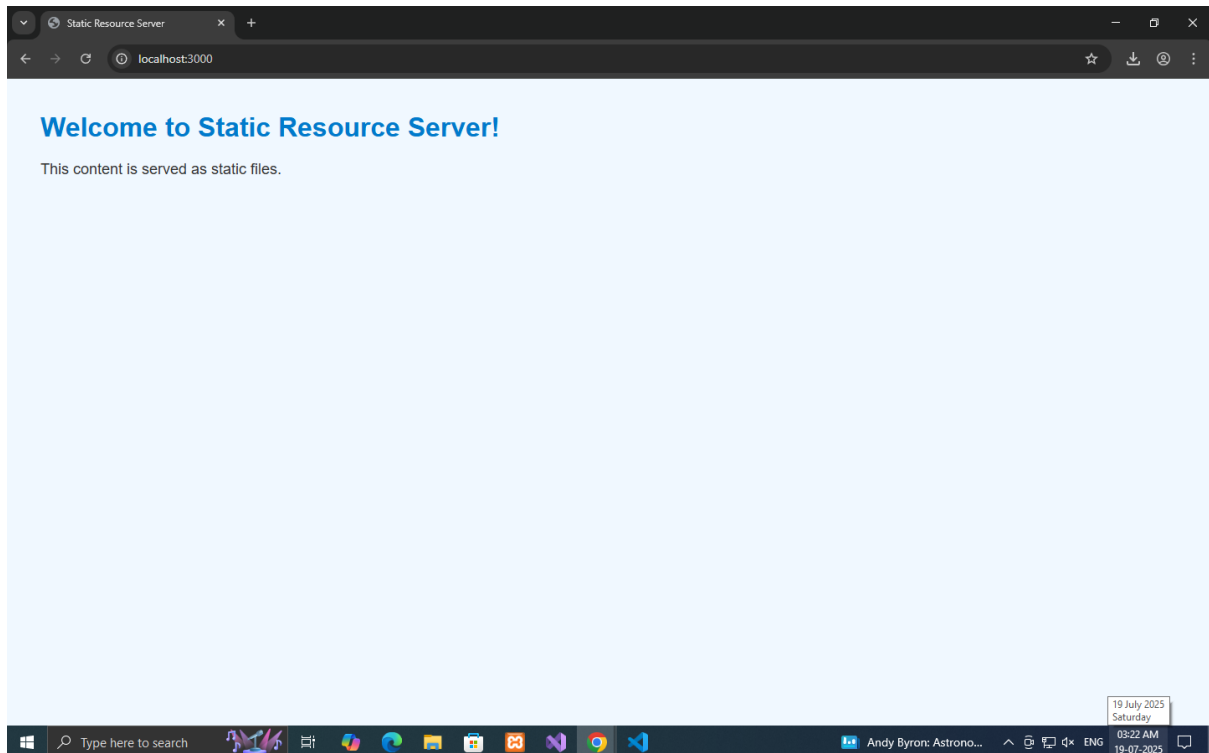
Subject : 701

Practical – Assignment : 1

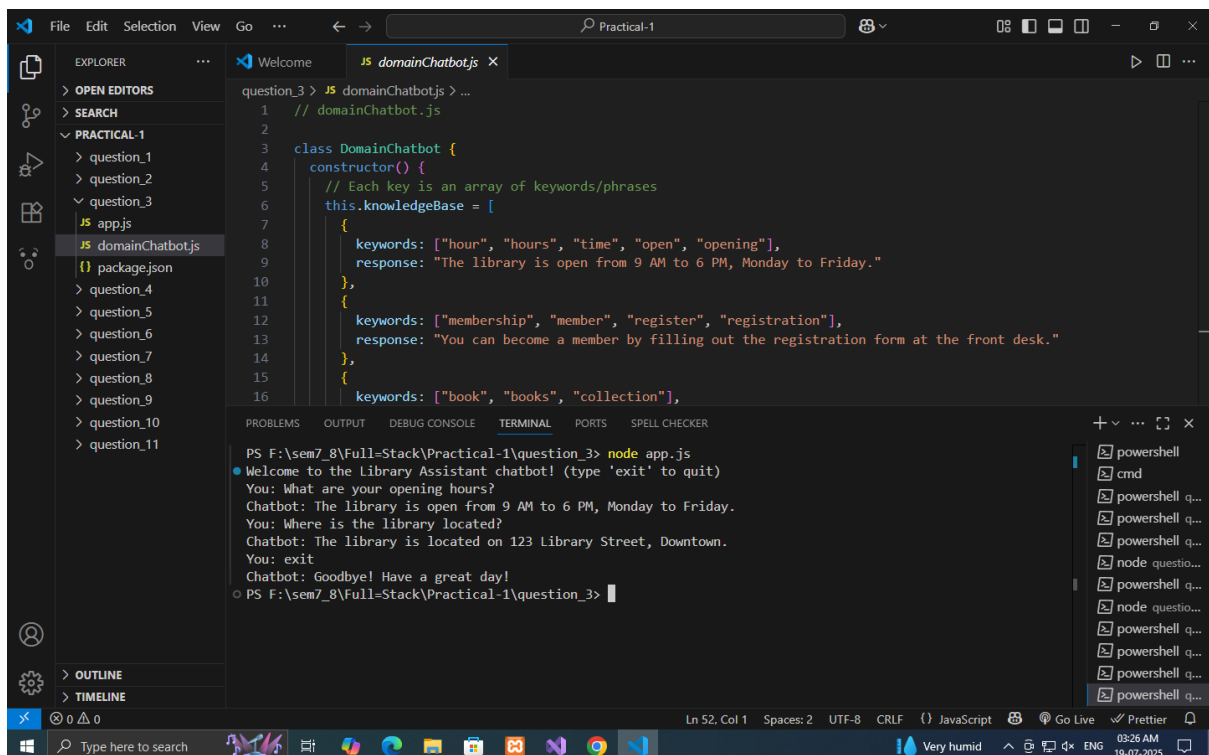
Que : 1



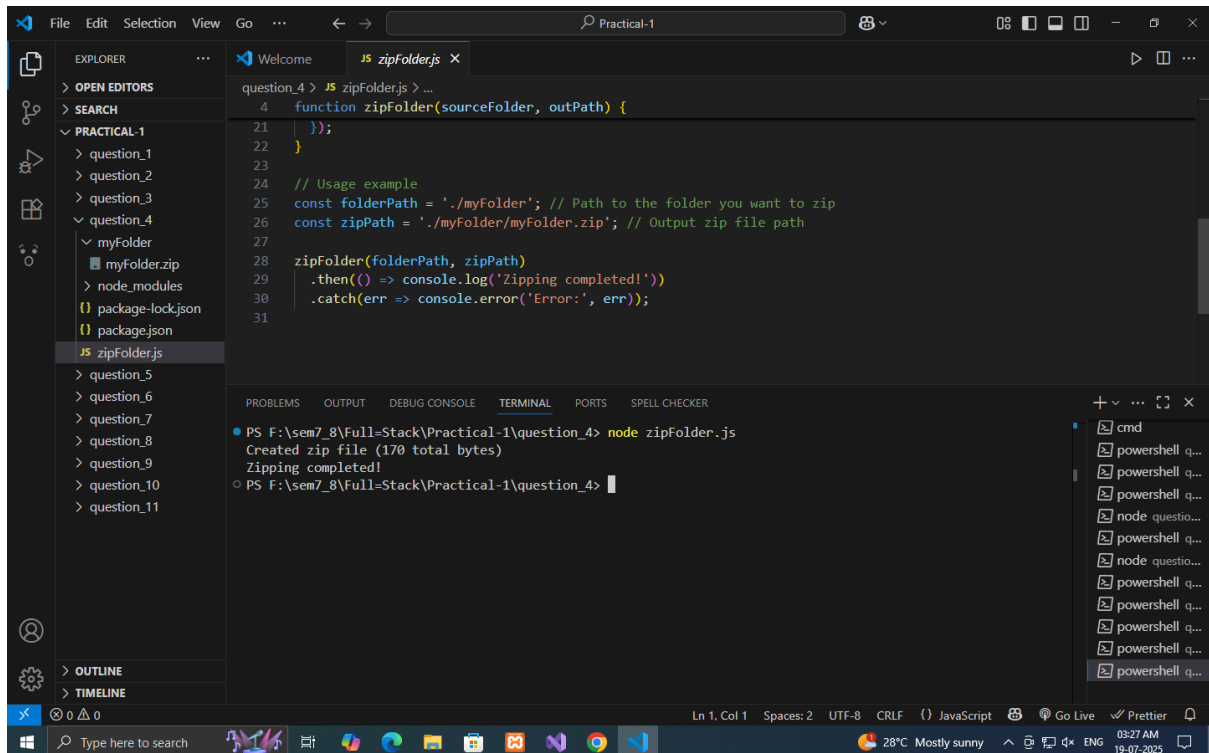
Que : 2



Que : 3



Que : 4



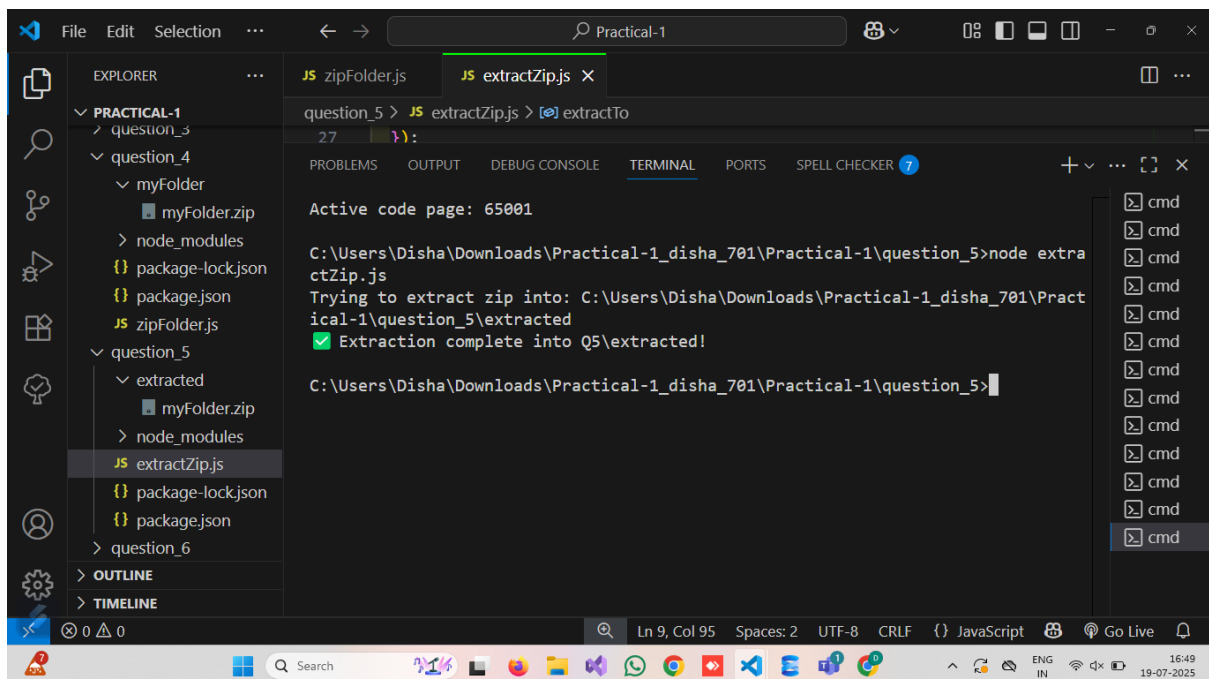
The screenshot shows the Visual Studio Code editor with a file explorer on the left and a code editor in the center. The file explorer shows a project structure with a folder named 'question_4' containing a 'myFolder' and a 'zipFolder.js' file. The code editor displays the contents of 'zipFolder.js', which defines a function to zip a folder. The terminal at the bottom shows the command 'node zipFolder.js' being executed, resulting in a message: 'Created zip file (170 total bytes) Zipping completed!'.

```
question_4 > JS zipFolder.js > ...
4 function zipFolder(sourceFolder, outputPath) {
21   });
22 }
23
24 // Usage example
25 const folderPath = './myFolder'; // Path to the folder you want to zip
26 const zipPath = './myFolder/myFolder.zip'; // Output zip file path
27
28 zipFolder(folderPath, zipPath)
29   .then(() => console.log('Zipping completed!'))
30   .catch(err => console.error('Error:', err));
31
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

- PS F:\sem7_8\Full-Stack\Practical-1\question_4> node zipFolder.js
Created zip file (170 total bytes)
Zipping completed!
- PS F:\sem7_8\Full-Stack\Practical-1\question_4> |

Que : 5



The screenshot shows the Visual Studio Code editor with a file explorer on the left and a code editor in the center. The file explorer shows a project structure with a folder named 'question_5' containing an 'extracted' folder and an 'extractZip.js' file. The code editor displays the contents of 'extractZip.js', which defines a function to extract a zip file. The terminal at the bottom shows the command 'node extractZip.js' being executed, resulting in a message: 'Trying to extract zip into: C:\Users\Disha\Downloads\Practical-1_disha_701\Practical-1\question_5\extracted Extraction complete into Q5\extracted!'.

```
question_5 > JS extractZip.js > [?] extractTo
27   });

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER 7

Active code page: 65001

C:\Users\Disha\Downloads\Practical-1_disha_701\Practical-1\question_5>node extra
ctZip.js
Trying to extract zip into: C:\Users\Disha\Downloads\Practical-1_disha_701\Pract
ical-1\question_5\extracted
✅ Extraction complete into Q5\extracted!

C:\Users\Disha\Downloads\Practical-1_disha_701\Practical-1\question_5>|

Que : 6

The screenshot shows a VS Code editor with a file named `removeFile.js` open. The code implements a function `deleteFile` that uses `fs.unlinkAsync` and `util.promisify` to delete a file. The terminal shows the command `node removefile.js` being executed, and the output indicates that the file was deleted successfully.

```
question_6 > JS removeFile.js > ...
1  const fs = require('fs');
2  const util = require('util');
3
4  // Promisify the fs.unlink function
5  const unlinkAsync = util.promisify(fs.unlink);
6
7  // Use the promisified function
8  async function deleteFile(filePath) {
9    try {
10      await unlinkAsync(filePath);
11      console.log(`${filePath} was deleted successfully.`);
12    } catch (err) {
13      console.error('Error deleting file: ${err.message}');
14    }
15  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

• PS F:\sem7_8\Full-Stack\Practical-1\question_6> node removefile.js
file.txt was deleted successfully.
○ PS F:\sem7_8\Full-Stack\Practical-1\question_6> |

Que : 7

The screenshot shows a VS Code editor with a file named `fetchGoogle.js` open. The code imports the `fetch` function from `node-fetch`. The terminal shows the command `node fetchGoogle.js` being executed, and the output displays the HTML response from Google.

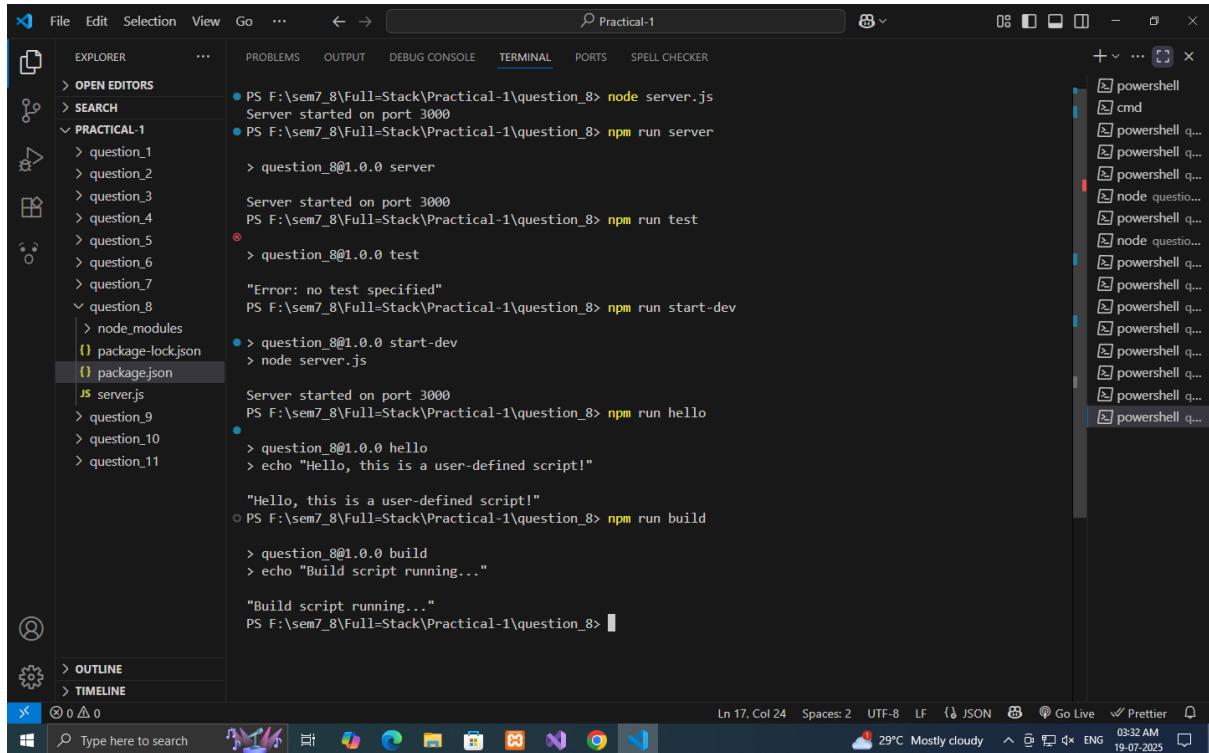
```
question_7 > JS fetchGoogle.js > ...
1  import fetch from 'node-fetch';
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER 3

Active code page: 65001

C:\Users\Disha\Downloads\Practical-1_disha_701\Practical-1\question_7>node
fetchGoogle.js
<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang
="en-IN"><head><meta content="text/html; charset=UTF-8" http-equiv="Content
-Type"><meta content="/images/branding/googleg/1x/googleg_standard_color_12
8dp.png" itemprop="image"><title>Google</title><script nonce="TSBaMMUBwBWLW
-0WwWedOgQ">(function(){var _g={kEI: 'jHF7aJmZIZ_e1sQP9dSCKA',kEXPI: '0,202791
,63,2,3497465,628,435,538661,48791,30022,6397,9708,201864,142932,238458,886
2,42724,11106,5230576,36812642,25275064,91885,14110,65171,6754,23879,9138,4
600,328,6225,37821,16368,9976,15049,8205,3292,4134,30379,28334,48287,617,99
9,4308,353,5010,2,5,2,13861,5870,7714,5773,24950,7,2655,3050,2,13472,3261,2
990,35,3420,2864,2882,7738,12107,2625,3058,3605,17771,2731,1834,2,11,1629,2
955,9470,646,4222,4,4,4801,1811,2,5,2,598,3874,945,792,4839,1,3459,2,82,831
,2,383,2423,463,7,488,763,127,600,1033,946,6,626,716,4143,2710,3,1880,3168,
7,1283,691,520,2126,103,4,1,320,3436,1667,667,34,1863,443,7,3741,3265,878,1
446,3,2,2,2,1331,3621,413,276,611,4,106,2140,850,1656,346,712,691,3520,1041
,729,5,365,1962,1281,53,354,183,2,1,1379,32,84,20,1196,632,282,654,281,25,4

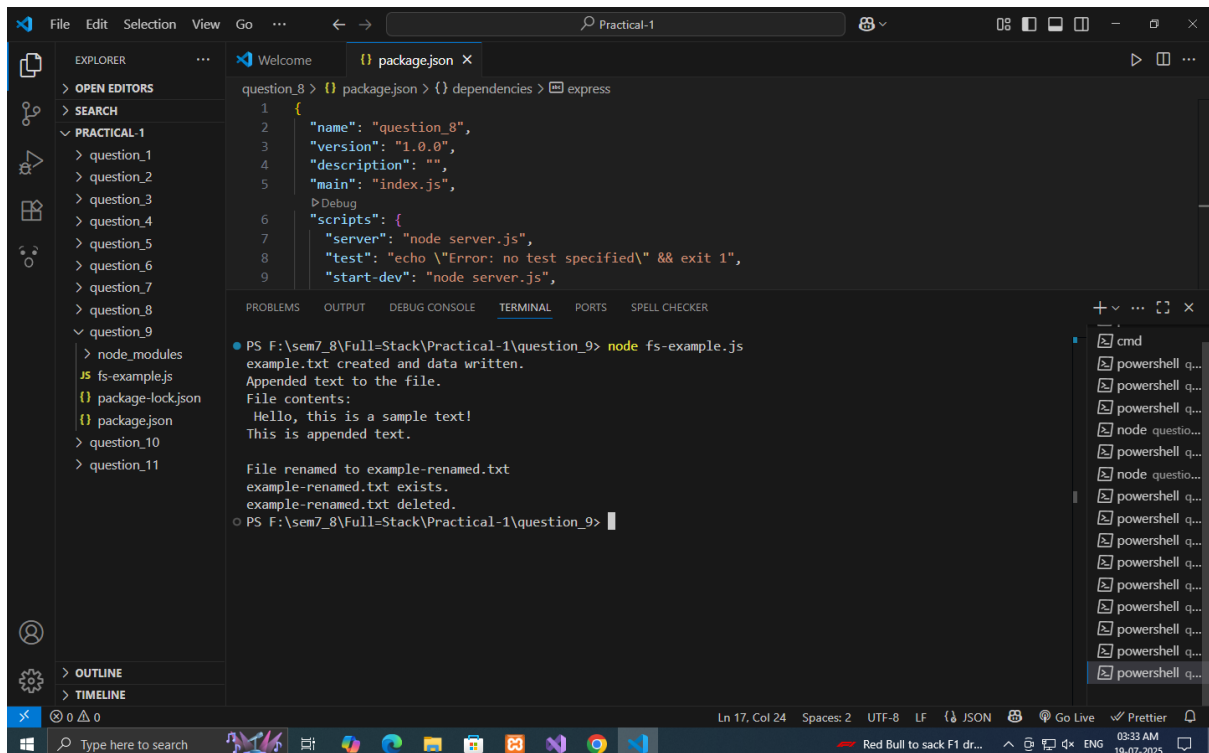
Que : 8



The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left displaying a project structure for 'question_8'. The main editor area shows the 'package.json' file. The terminal window at the bottom displays the following commands and output:

```
PS F:\sem7_8\Full-Stack\Practical-1\question_8> node server.js
Server started on port 3000
PS F:\sem7_8\Full-Stack\Practical-1\question_8> npm run server
> question_8@1.0.0 server
Server started on port 3000
PS F:\sem7_8\Full-Stack\Practical-1\question_8> npm run test
> question_8@1.0.0 test
"Error: no test specified"
PS F:\sem7_8\Full-Stack\Practical-1\question_8> npm run start-dev
> question_8@1.0.0 start-dev
> node server.js
Server started on port 3000
PS F:\sem7_8\Full-Stack\Practical-1\question_8> npm run hello
> question_8@1.0.0 hello
> echo "Hello, this is a user-defined script!"
"Hello, this is a user-defined script!"
PS F:\sem7_8\Full-Stack\Practical-1\question_8> npm run build
> question_8@1.0.0 build
> echo "Build script running..."
"Build script running..."
PS F:\sem7_8\Full-Stack\Practical-1\question_8>
```

Que : 9



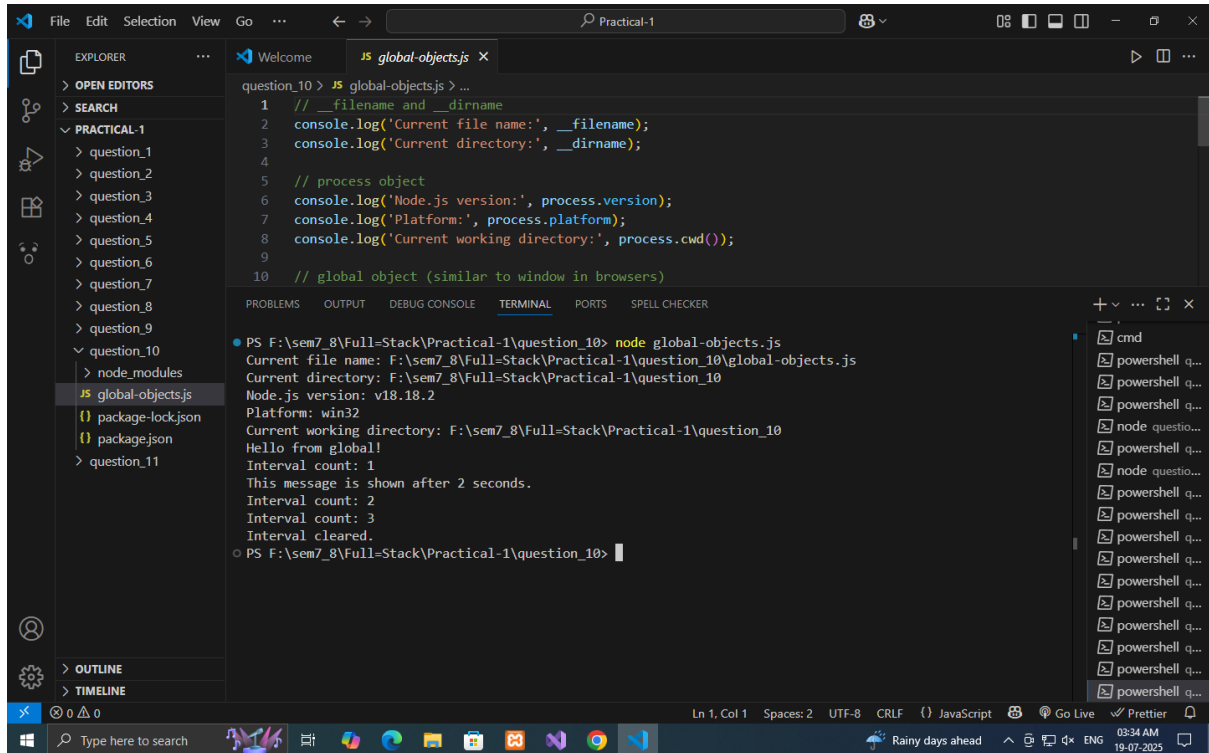
The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left displaying a project structure for 'question_9'. The main editor area shows the 'package.json' file. The terminal window at the bottom displays the following commands and output:

```
question_9 > {} package.json > {} dependencies > express
1 {
2   "name": "question_8",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "server": "node server.js",
8     "test": "echo \"Error: no test specified\" && exit 1",
9     "start-dev": "node server.js",
10  }
11 }
```

```
PS F:\sem7_8\Full-Stack\Practical-1\question_9> node fs-example.js
example.txt created and data written.
Appended text to the file.
File contents:
Hello, this is a sample text!
This is appended text.

File renamed to example-renamed.txt
example-renamed.txt exists.
example-renamed.txt deleted.
PS F:\sem7_8\Full-Stack\Practical-1\question_9>
```

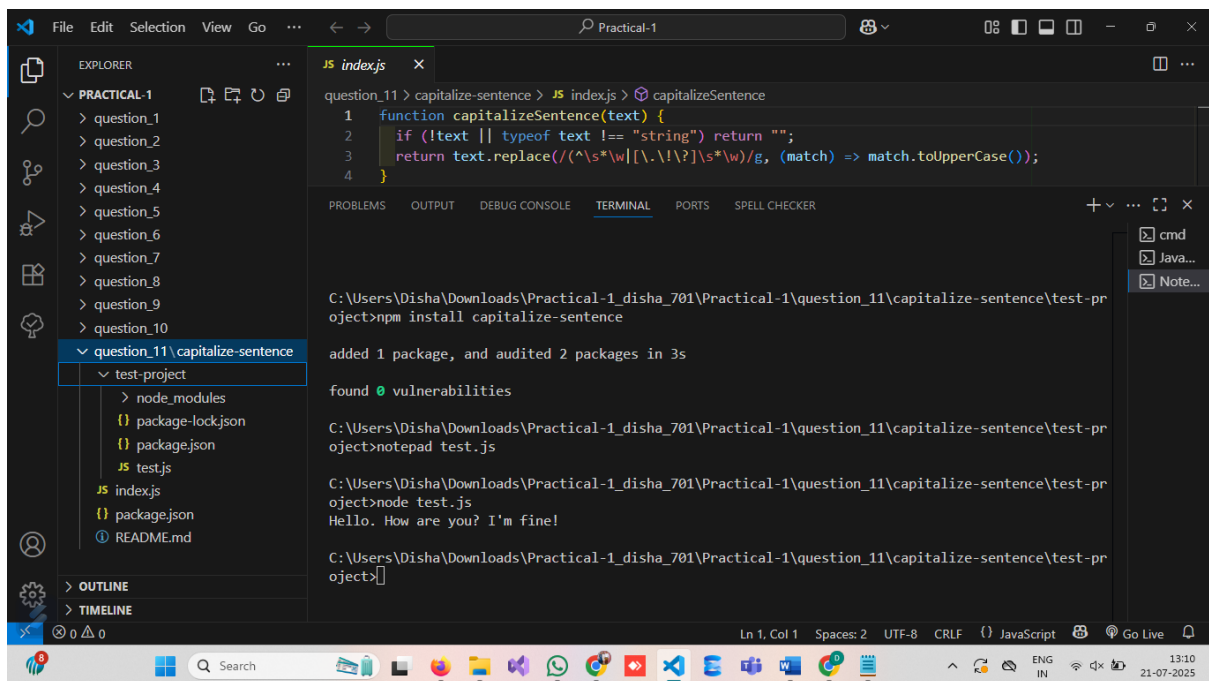
Que : 10



```
question_10 > JS global-objects.js > ...
1 // __filename and __dirname
2 console.log('Current file name:', __filename);
3 console.log('Current directory:', __dirname);
4
5 // process object
6 console.log('Node.js version:', process.version);
7 console.log('Platform:', process.platform);
8 console.log('Current working directory:', process.cwd());
9
10 // global object (similar to window in browsers)
```

PS F:\sem7_8\Full-Stack\Practical-1\question_10> node global-objects.js
Current file name: F:\sem7_8\Full-Stack\Practical-1\question_10\global-objects.js
Current directory: F:\sem7_8\Full-Stack\Practical-1\question_10
Node.js version: v18.18.2
Platform: win32
Current working directory: F:\sem7_8\Full-Stack\Practical-1\question_10
Hello from global!
Interval count: 1
This message is shown after 2 seconds.
Interval count: 2
Interval count: 3
Interval cleared.
PS F:\sem7_8\Full-Stack\Practical-1\question_10>

Que : 11



```
question_11 > capitalize-sentence > JS index.js > capitalizeSentence
1 function capitalizeSentence(text) {
2   if (!text || typeof text !== "string") return "";
3   return text.replace(/([^\s*]|[\.\!?\]\s*])/g, (match) => match.toUpperCase());
4 }
```

C:\Users\Disha\Downloads\Practical-1_disha_701\Practical-1\question_11\capitalize-sentence\test-pr
ject>npm install capitalize-sentence
added 1 package, and audited 2 packages in 3s
found 0 vulnerabilities
C:\Users\Disha\Downloads\Practical-1_disha_701\Practical-1\question_11\capitalize-sentence\test-pr
ject>notepad test.js
C:\Users\Disha\Downloads\Practical-1_disha_701\Practical-1\question_11\capitalize-sentence\test-pr
ject>node test.js
Hello. How are you? I'm fine!
C:\Users\Disha\Downloads\Practical-1_disha_701\Practical-1\question_11\capitalize-sentence\test-pr
ject>