

Subject : Application Development Using Full Stack
(701)

Assignment-1

Name : Mit A. Patil

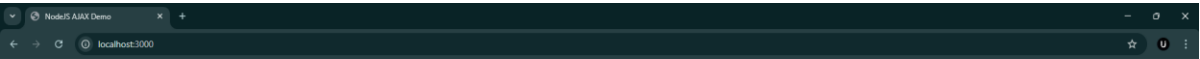
Sem : M.Sc(IT) 7th

Div : B

Roll No : 98

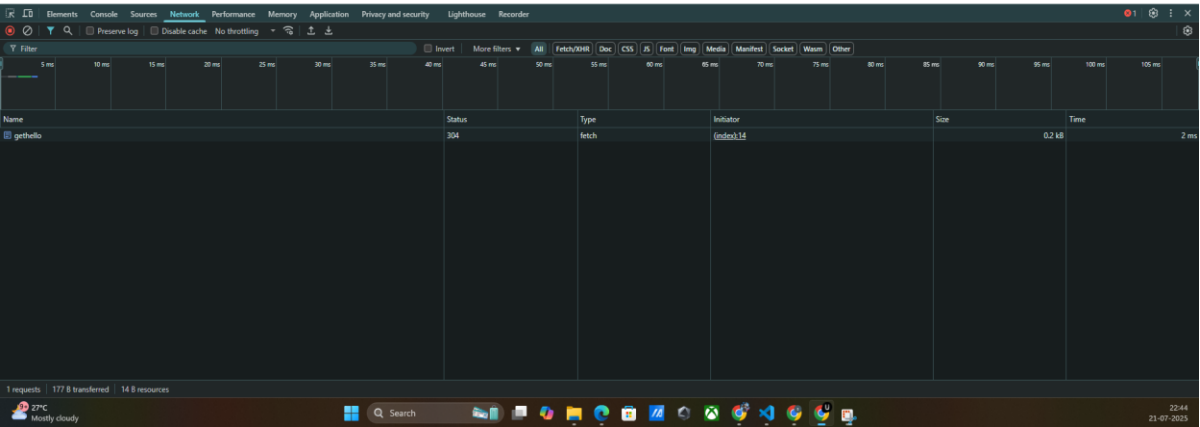
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Problem - 1



Question 1

Get Hello
Hello NodeJS!!



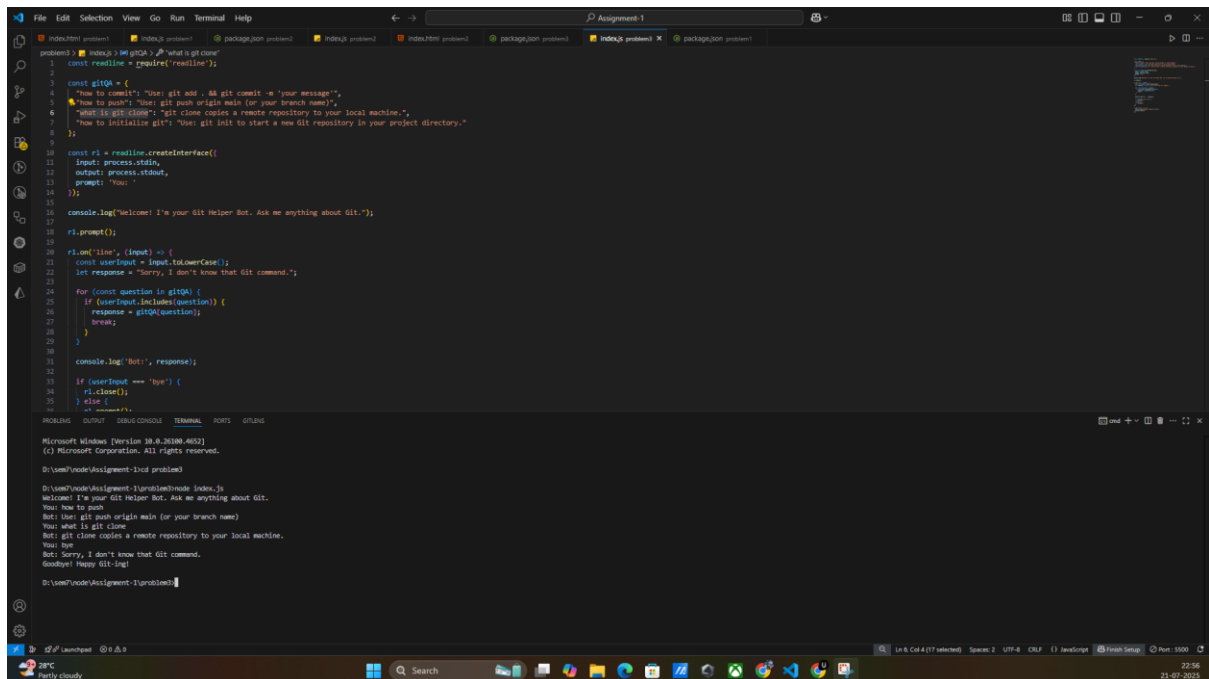
Problem – 2



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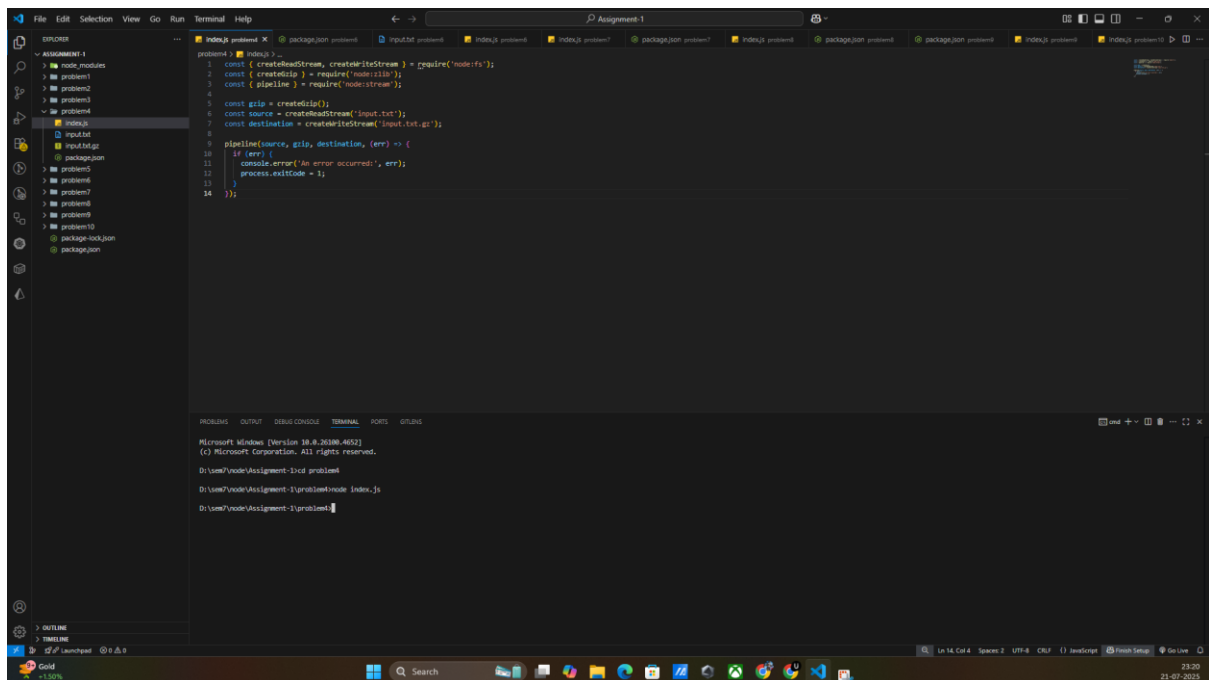


Problem – 3



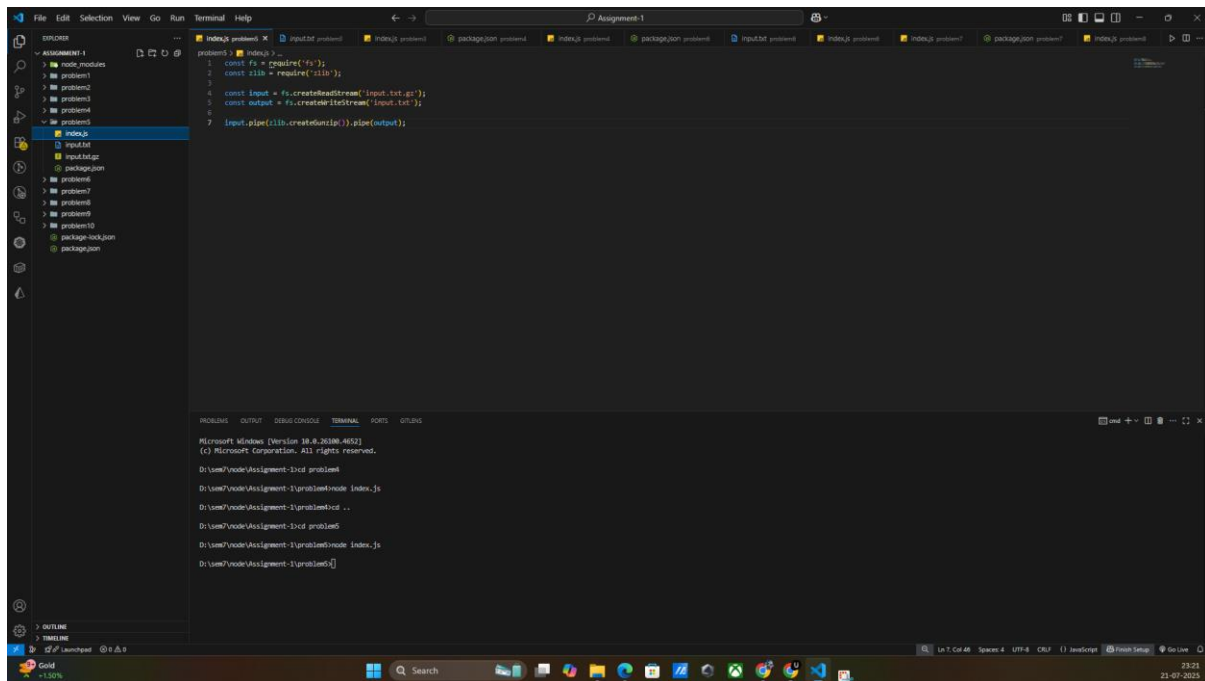
```
1 const readline = require('readline');
2
3 const gitQA = [
4   "How to commit? Use: git add . && git commit -m 'your message'",
5   "How to push? Use: git push origin main (or your branch name)",
6   "What is git clone? git clone copies a remote repository to your local machine.",
7   "How to initialize git? Use: git init to start a new git repository in your project directory."
8 ];
9
10 const rl = readline.createInterface({
11   input: process.stdin,
12   output: process.stdout,
13   prompt: "You: "
14 });
15
16 console.log("Welcome! I'm your Git Helper Bot. Ask me anything about git.");
17
18 rl.prompt();
19
20 rl.on('line', (input) => {
21   const userInput = input.toLowerCase();
22   let response = "Sorry, I don't know that git command.";
23
24   for (const question in gitQA) {
25     if (userInput.includes(question)) {
26       response = gitQA[question];
27       break;
28     }
29   }
30
31   console.log("Bot:", response);
32
33   if (userInput === 'bye') {
34     rl.close();
35   } else {
36     rl.prompt();
37   }
38 })
39
40 // PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLens
41
42 Microsoft Windows [Version 10.0.26100.4652]
43 (c) Microsoft Corporation. All rights reserved.
44
45 D:\code\vscode\Assignment-1\problem> node index.js
46
47 Welcome! I'm your Git Helper Bot. Ask me anything about git.
48 You: how to push
49 Bot: Use: git push origin main (or your branch name)
50 You: what is git clone
51 Bot: git clone copies a remote repository to your local machine.
52 You: bye
53 Bot: Sorry, I don't know that git command.
54 Goodbye! Happy Git-ing!
55
56 D:\code\vscode\Assignment-1\problem>
```

Problem – 4



```
1 const { createReadStream, createWriteStream } = require('node:fs');
2 const { createPipe } = require('node:child_process');
3 const { pipeline } = require('node:stream');
4
5 const src = createReadStream('input.txt');
6 const dest = createWriteStream('output.txt');
7 const pipeline = createWriteStream('output.txt');
8
9 pipeline(src, dest, (err) => {
10   if (err) {
11     console.error('An error occurred:', err);
12     process.exitCode = 1;
13   }
14 });
```

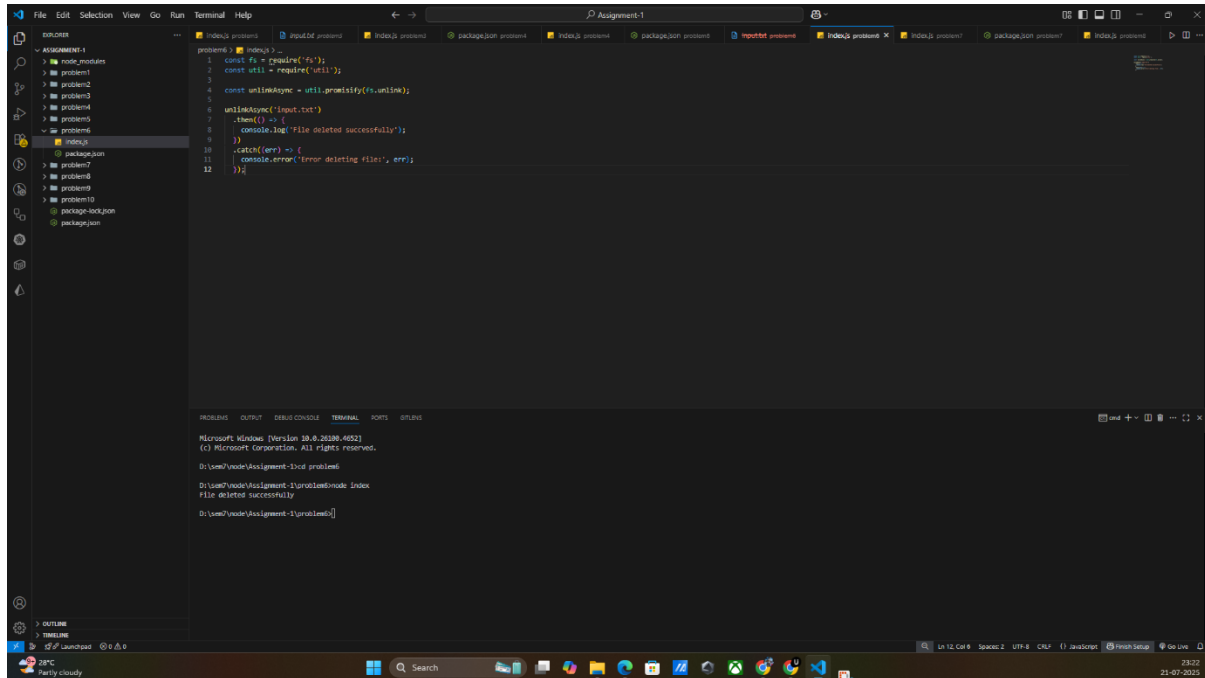
Problem – 5



```
1 const fs = require('fs');
2 const zlib = require('zlib');
3
4 const input = fs.createReadStream('input.txt');
5 const output = fs.createWriteStream('output.txt');
6
7 input.pipe(zlib.createDeflate()).pipe(output);
```

Microsoft Windows [Version 10.0.26100.4022]
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D:\user\vscode\Assignment-1> node index.js
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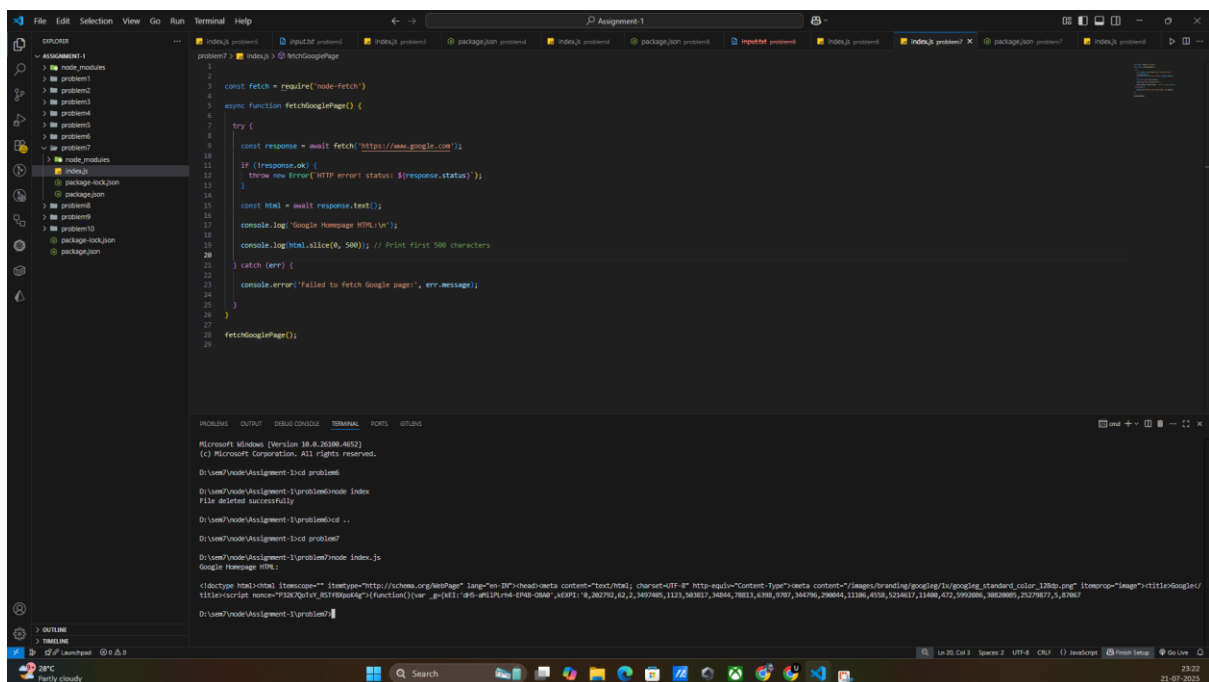
Problem – 6



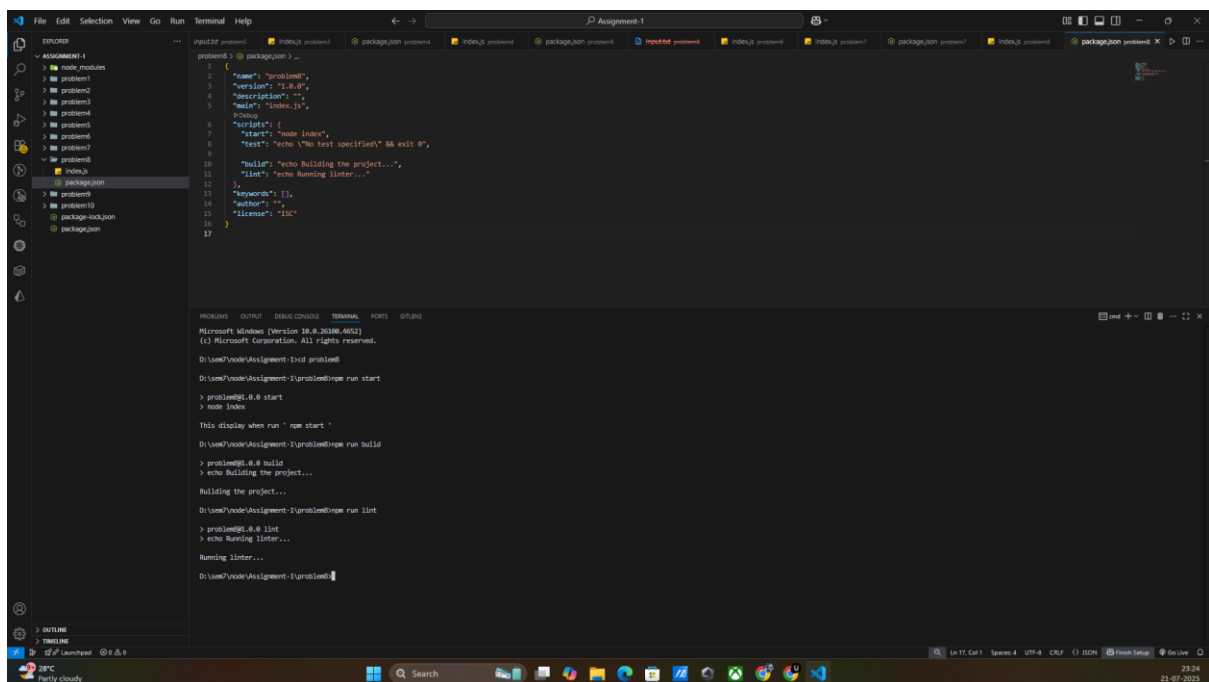
```
1 const fs = require('fs');
2 const util = require('util');
3
4 const unlinkAsync = util.promisify(fs.unlink);
5
6 unlinkAsync('input.txt')
7 .then(() => {
8   console.log('File deleted successfully');
9 })
10 .catch(err => {
11   console.error('Error deleting file:', err);
12 });
```

Microsoft Windows [Version 10.0.26100.4022]
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D:\user\vscode\Assignment-1> node index.js
File deleted successfully
D:\user\vscode\Assignment-1> node index.js

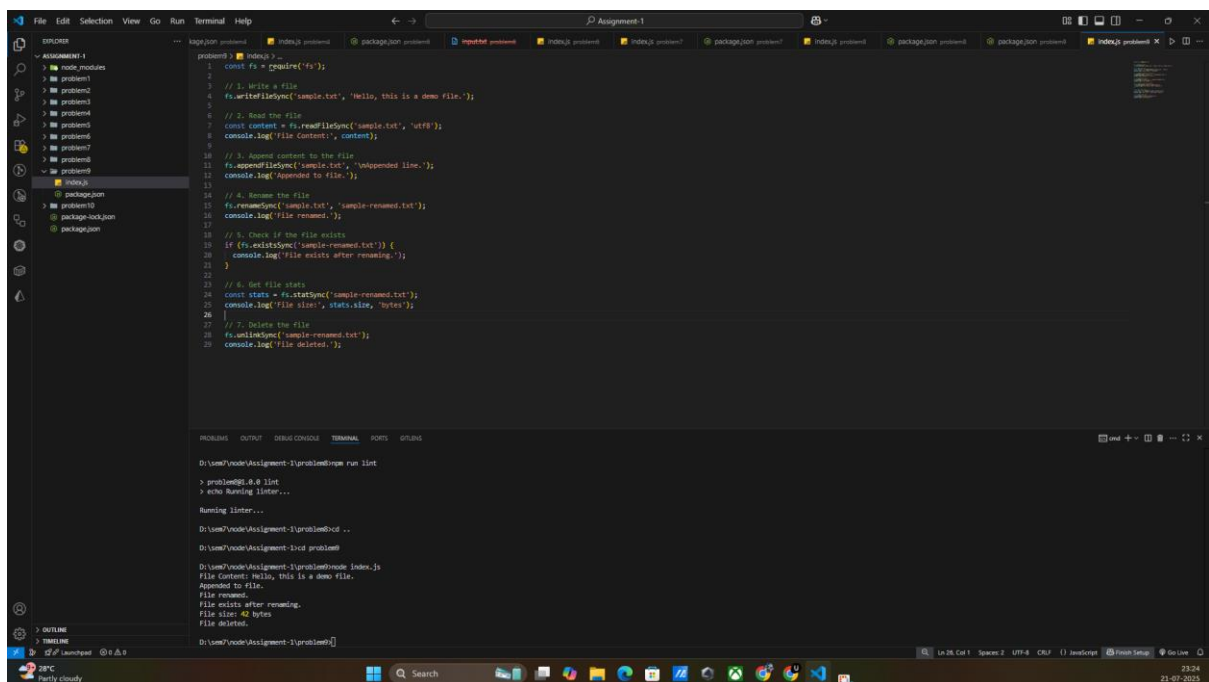
Problem – 7



Problem – 8



Problem – 9



Problem – 10

