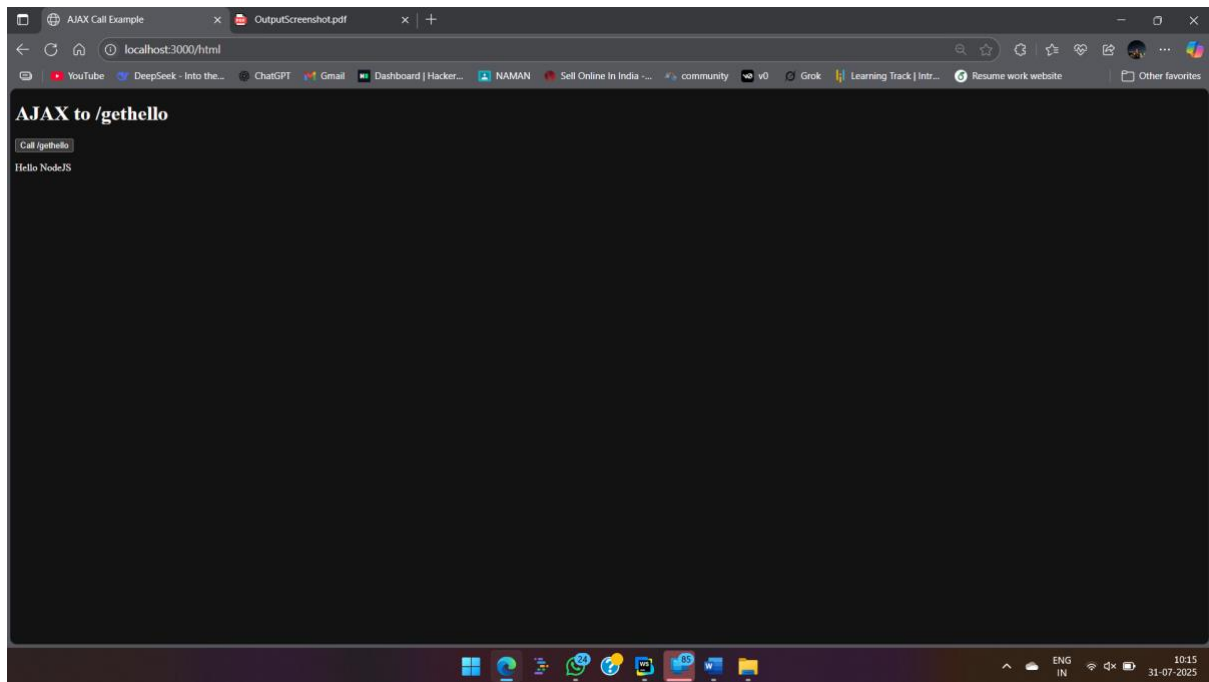


Name : Naman R.Ramphale

Roll no : 51

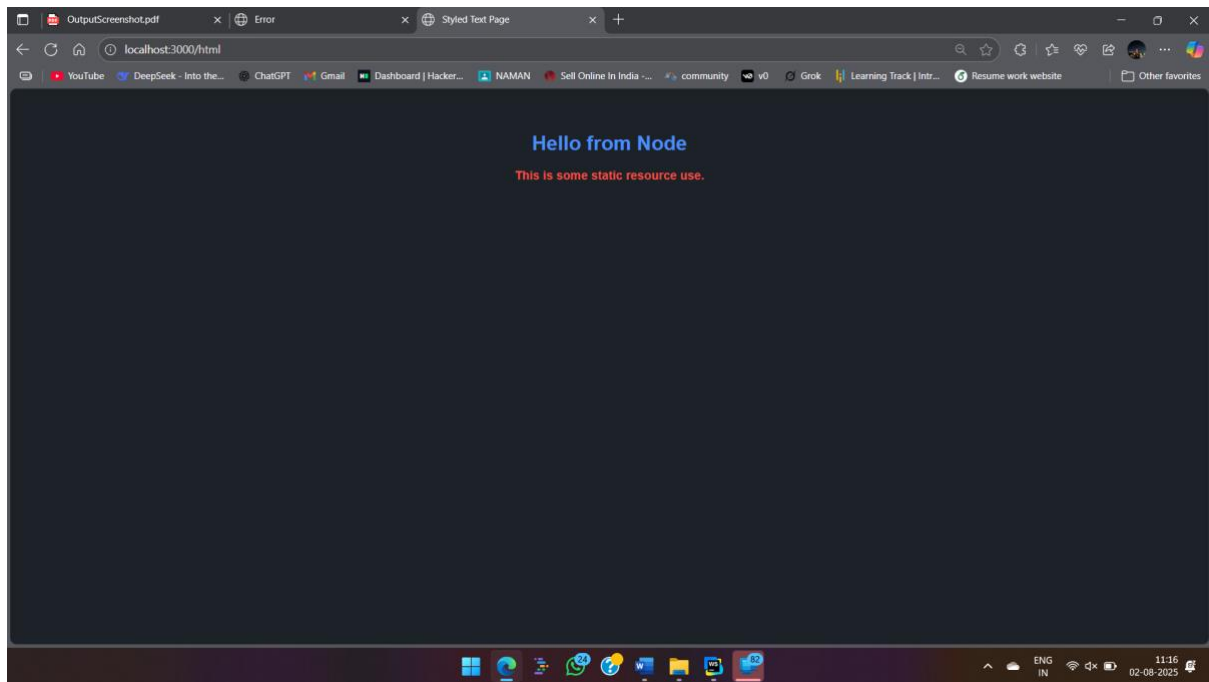
Div : ICT

Q1 . Develop nodejs application with following requirements: • Develop a route "/gethello" with GET method. It displays "Hello NodeJS!!!" as response. • Make an HTML page and display. • Call "/gethello" route from HTML page using AJAX call. (Any frontend used.)



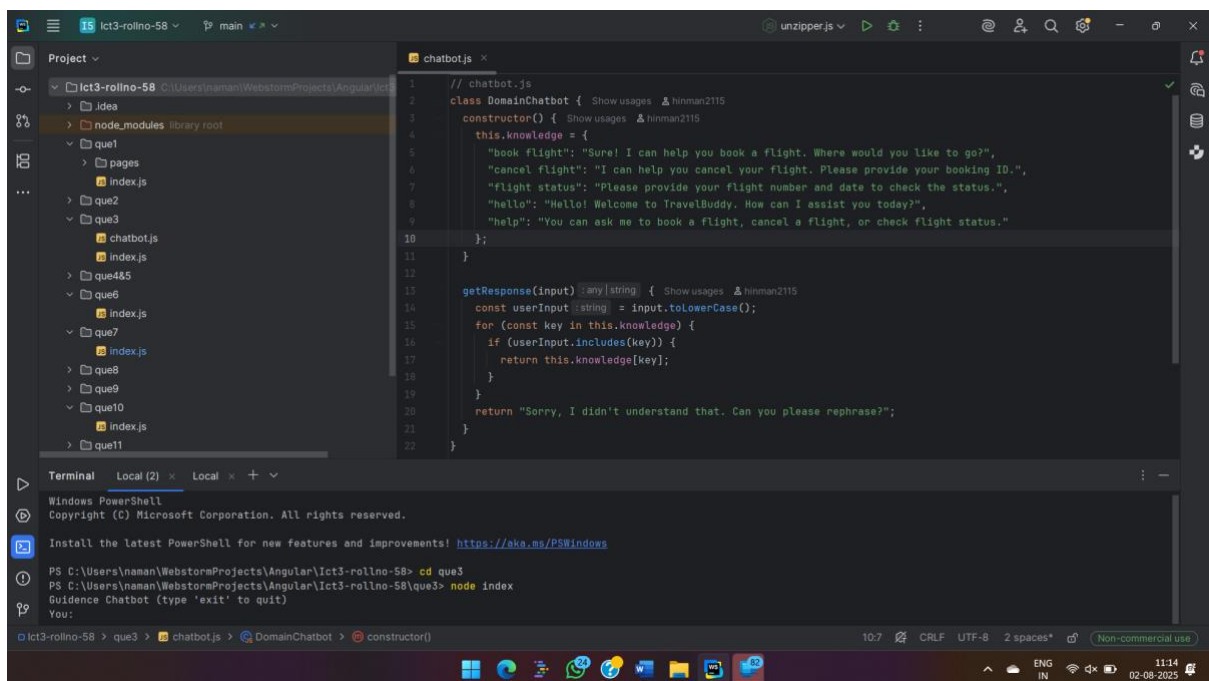
2) Develop a web server which serves static resources.

Screenshot

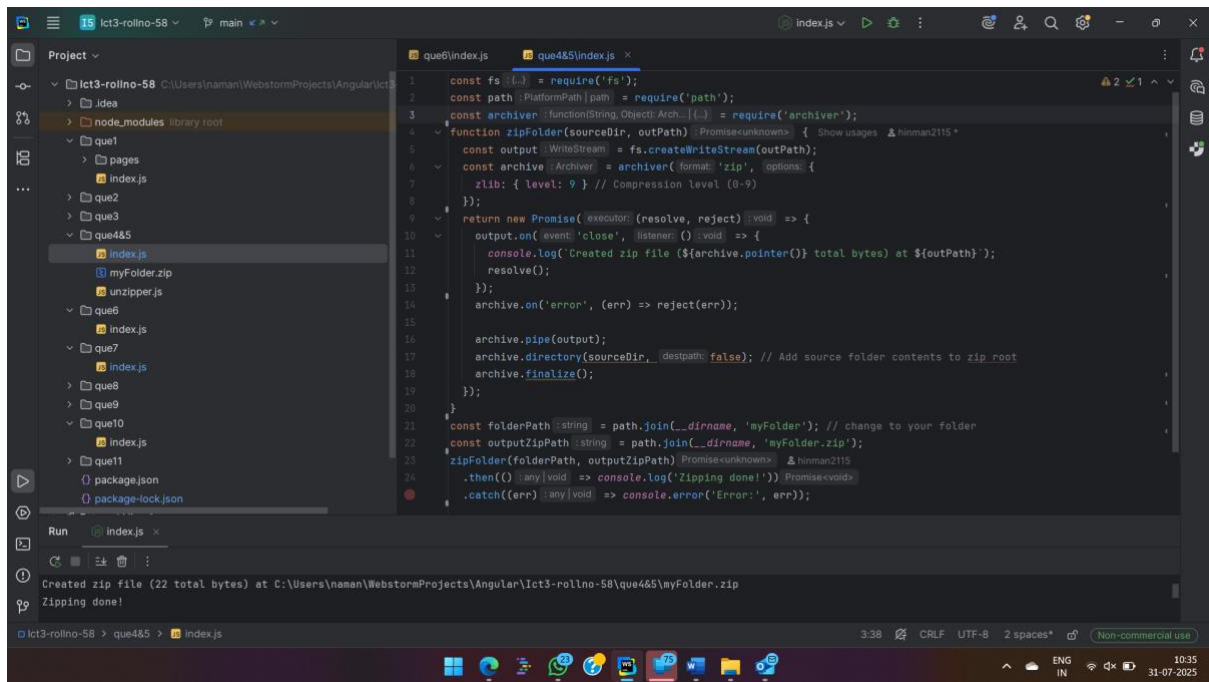


3) Develop a module for domain specific chatbot and use it in a command line application.

ScreenShot

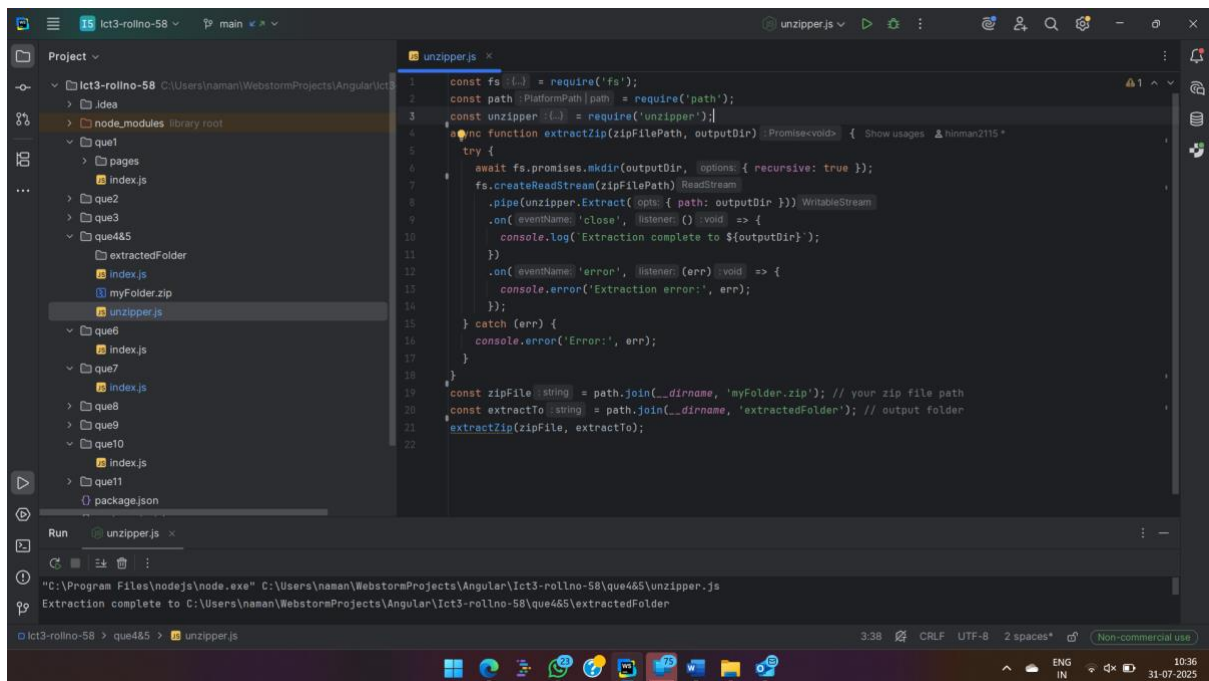


4) Write a program to create a compressed zip file for a folder.



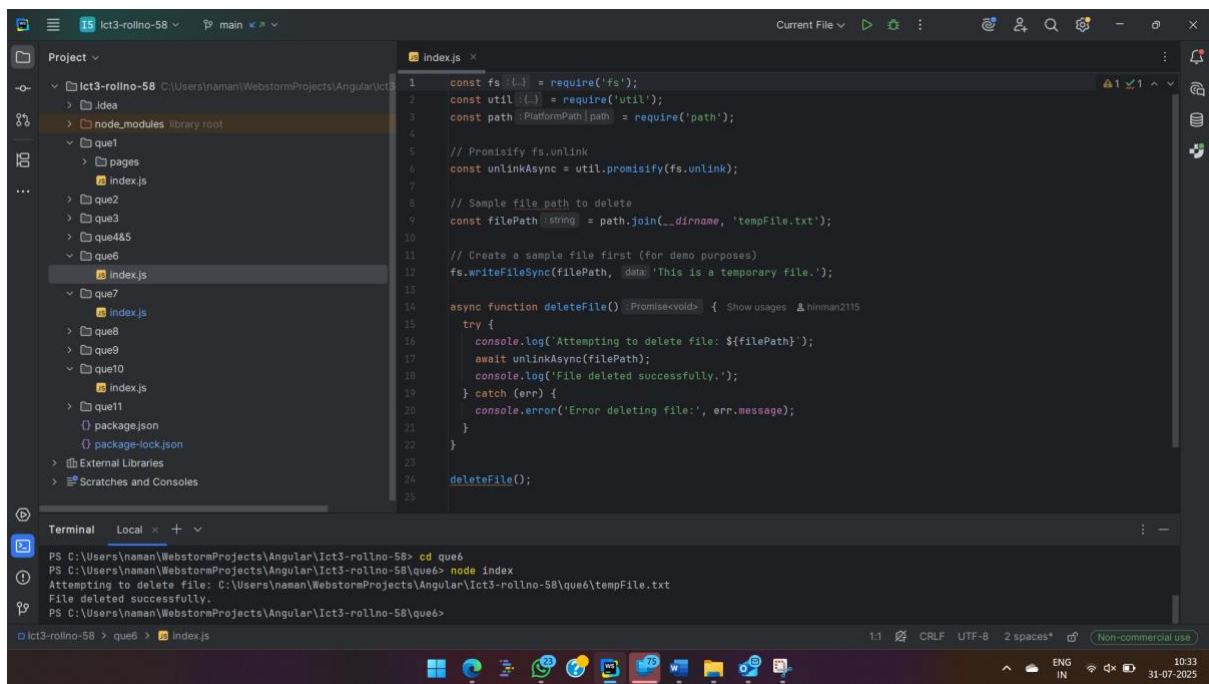
5) Write a program to extract a zip file.

Screenshot



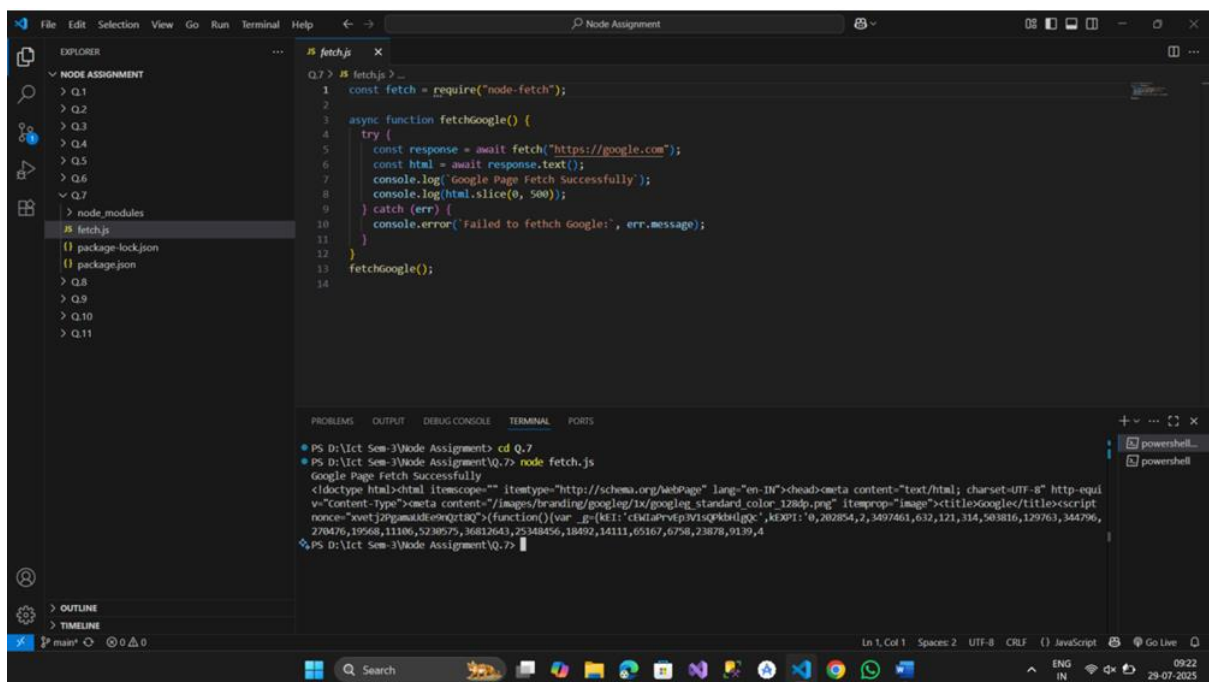
6) Write a program to promisify fs.unlink function and call it.

Screenshot



7) Fetch data of google page using node-fetch using async-await model.

ScreenShot

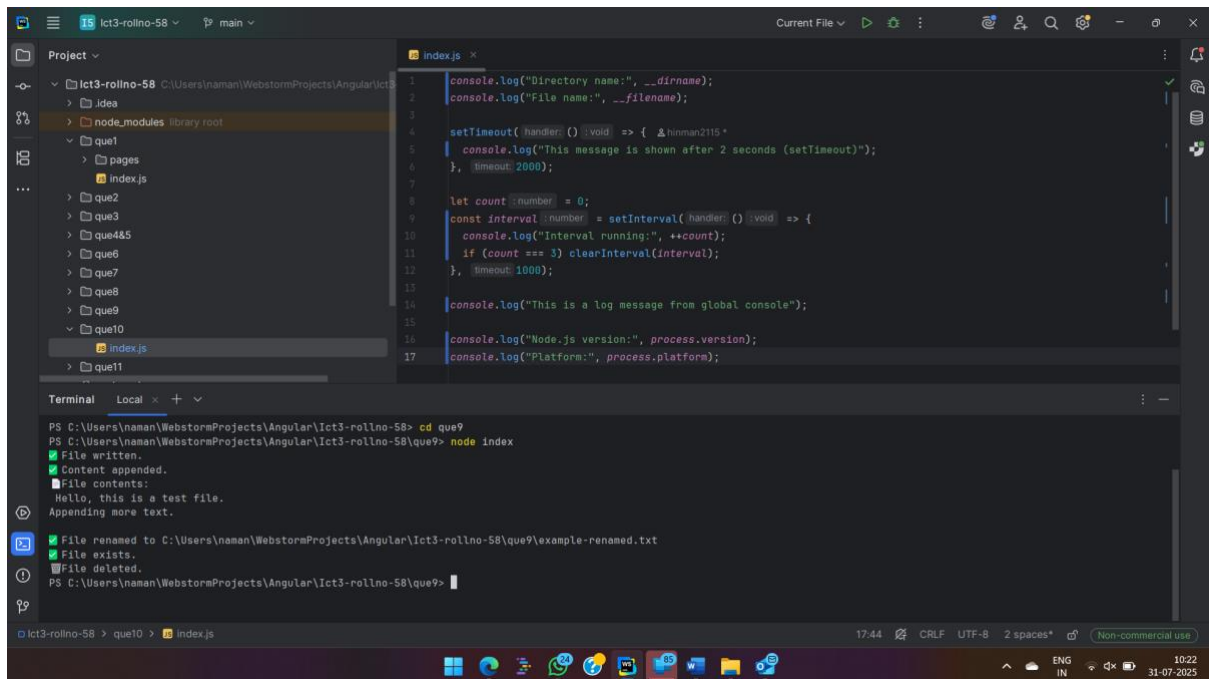


8) Set a server script, a test script and 3 user defined scripts in package.json file in your nodejs application.

Screenshot

9) A program which calls useful functions in fs module.

Screenshot



The screenshot shows the Visual Studio Code interface. The file explorer on the left shows a project structure with folders like 'idea', 'node_modules', 'pages', and 'index.js'. The code editor in the center displays the contents of 'index.js', which includes a directory and file listing function, a setTimeout function, a setInterval function, and console.log statements for Node.js version and platform. The terminal window at the bottom shows the command 'node index' being executed, and the output of the program, including file contents and a log message.

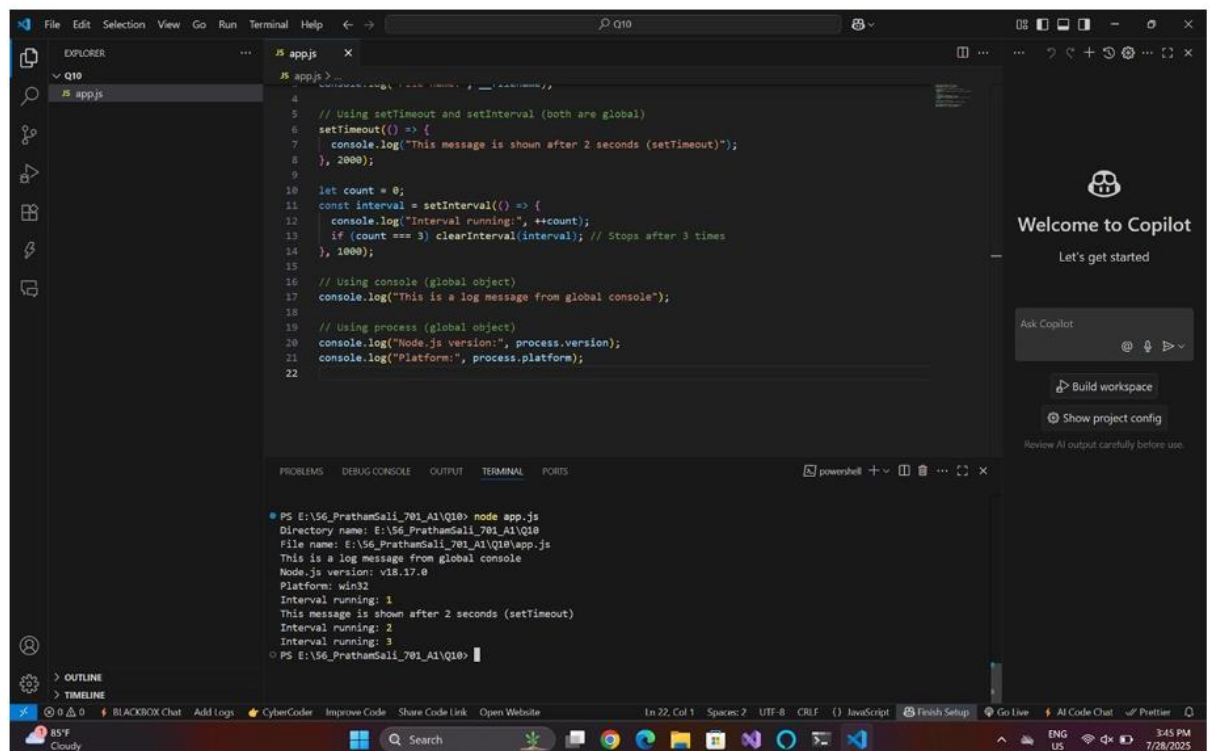
```
1 console.log("Directory name:", __dirname);
2 console.log("File name:", __filename);
3
4 setTimeout(handler, 2000) => {
5   console.log("This message is shown after 2 seconds (setTimeout)");
6 }, 2000);
7
8 let count = 0;
9 const interval = setInterval(handler, 1000) => {
10   console.log("Interval running:", ++count);
11   if (count === 3) clearInterval(interval);
12 }, 1000);
13
14 console.log("This is a log message from global console");
15
16 console.log("Node.js version:", process.version);
17 console.log("Platform:", process.platform);
```

Terminal output:

```
PS C:\Users\name\WebstormProjects\Angular\Ict3-rollno-58> cd que9
PS C:\Users\name\WebstormProjects\Angular\Ict3-rollno-58\que9> node index
File written.
Content appended.
File contents:
Hello, this is a test file.
Appending more text.
File renamed to C:\Users\name\WebstormProjects\Angular\Ict3-rollno-58\que9\example-renamed.txt
File exists.
File deleted.
PS C:\Users\name\WebstormProjects\Angular\Ict3-rollno-58\que9>
```

10. A program which uses global objects in nodejs.

Screenshot



The screenshot shows the Visual Studio Code interface. The file explorer on the left shows a project structure with folders like 'Q10' and 'app.js'. The code editor in the center displays the contents of 'app.js', which includes a directory and file listing function, a setTimeout function, a setInterval function, and console.log statements for Node.js version and platform. The terminal window at the bottom shows the command 'node app.js' being executed, and the output of the program, including file contents and a log message.

```
1 console.log("Directory name:", __dirname);
2 console.log("File name:", __filename);
3
4 // Using setTimeout and setInterval (both are global)
5 setTimeout(() => {
6   console.log("This message is shown after 2 seconds (setTimeout)");
7 }, 2000);
8
9
10 let count = 0;
11 const interval = setInterval(() => {
12   console.log("Interval running:", ++count);
13   if (count === 3) clearInterval(interval); // Stops after 3 times
14 }, 1000);
15
16 // Using console (global object)
17 console.log("This is a log message from global console");
18
19 // Using process (global object)
20 console.log("Node.js version:", process.version);
21 console.log("Platform:", process.platform);
22
```

Terminal output:

```
PS E:\56-PrathamGali_701_A1\Q10> node app.js
Directory name: E:\56-PrathamGali_701_A1\Q10
File name: E:\56-PrathamGali_701_A1\Q10\app.js
This is a log message from global console
Node.js version: v18.17.0
Platform: win32
Interval running: 1
This message is shown after 2 seconds (setTimeout)
Interval running: 2
Interval running: 3
PS E:\56-PrathamGali_701_A1\Q10>
```

11. Develop a useful package and publish it on npmjs.com