Name: - Aryan Hemantbhai Patel
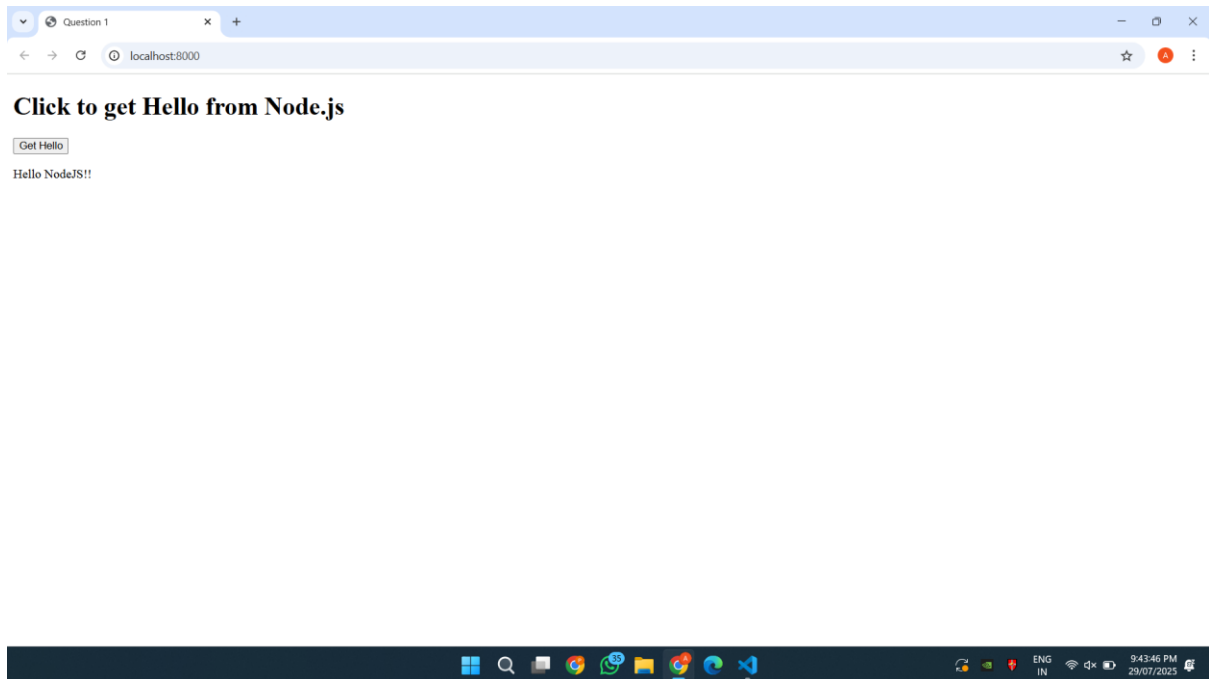
Roll No.: - 42

Div: - ICT (Sem-3)

Subject: - Open Source Web Development

1. 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 AJAX call API can be used.)

2. Develop a web server which serves static resources.
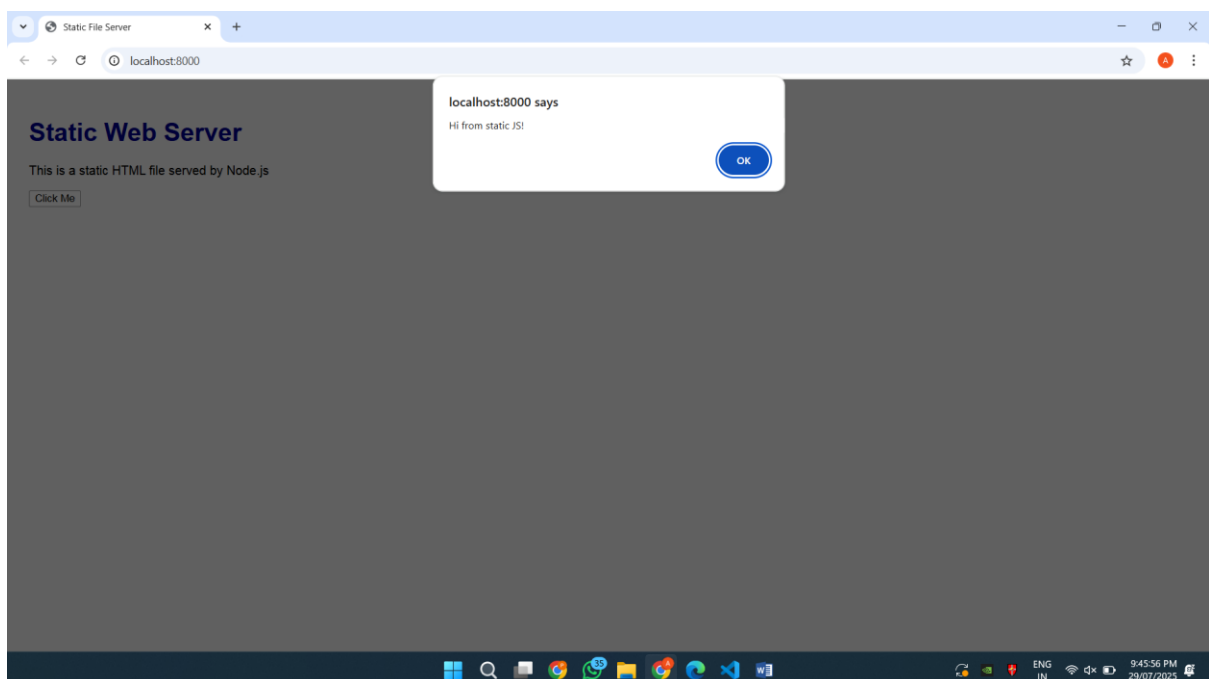
3. Develop a module for domain specific chatbot and use it in a command line application.

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PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS              powershell - question_3  + ∨  ⬚ ⬚ 🗑 ... [] ✕

● PS E:\Node\042_AryanPatel_701_A1\question_3> node cli.js
  Ask me about Node.js (type 'exit' to quit)
  You: What is Nodejs
  Bot: Node.js is a JavaScript runtime built on Chrome's V8 engine.
● You: exit
  Bot: Bye!
○ PS E:\Node\042_AryanPatel_701_A1\question_3> ▯
```
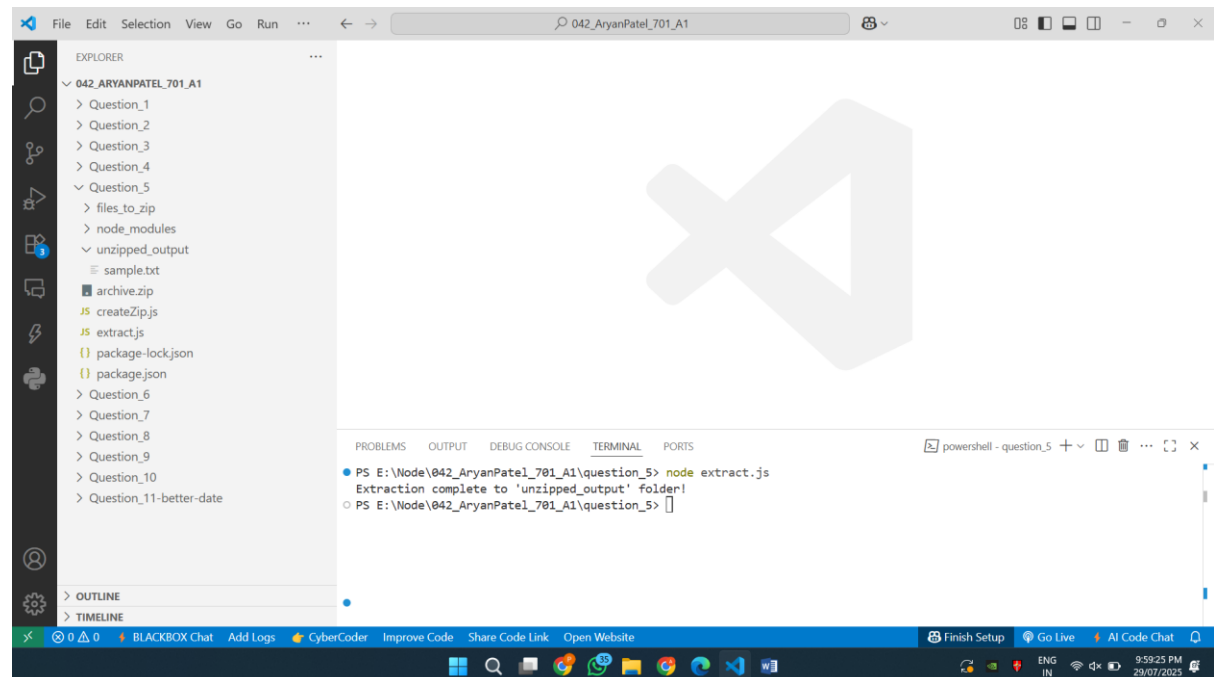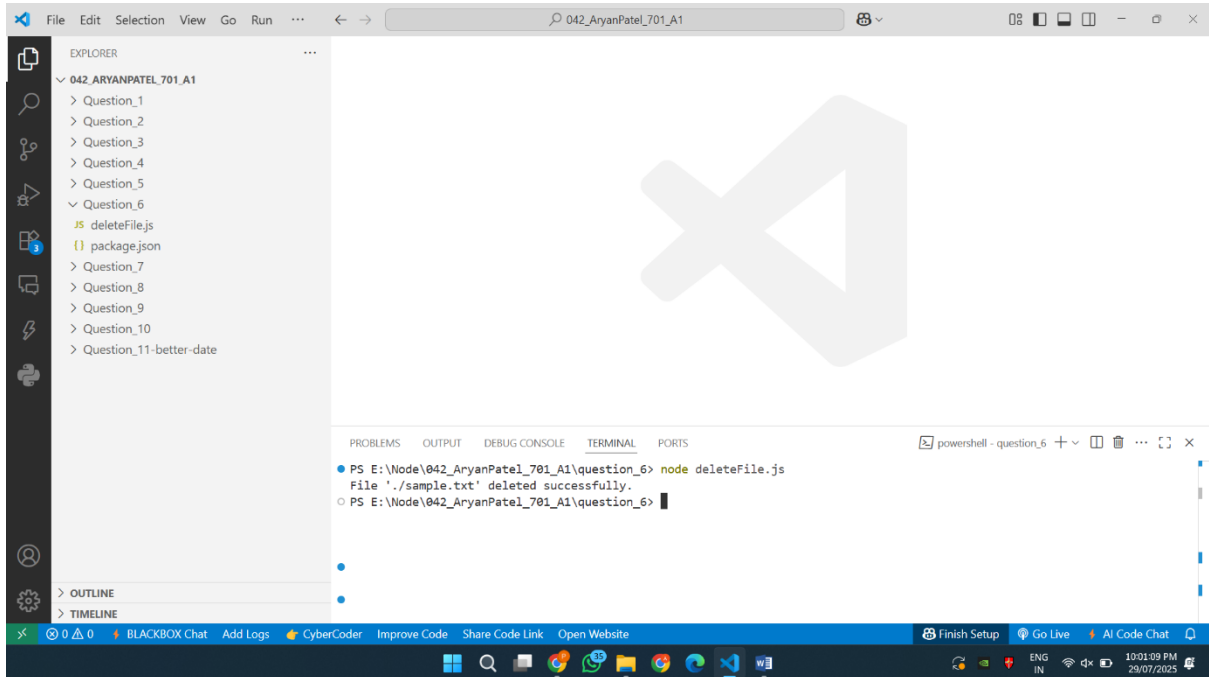
4. Write a program to create a compressed zip file for a folder.

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS              powershell - zip-folder  + ∨  ⬚ 🗑 ... [] ✕

● PS E:\Node\042_AryanPatel_701_A1\question_4\zip-folder> node zip.js
  Zip created: 168 total bytes
○ PS E:\Node\042_AryanPatel_701_A1\question_4\zip-folder> █
```

5. Write a program to extract a zip file.

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

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

8. Set a server script, a test script and 3 user defined scripts in package.json file in your nodejs application.
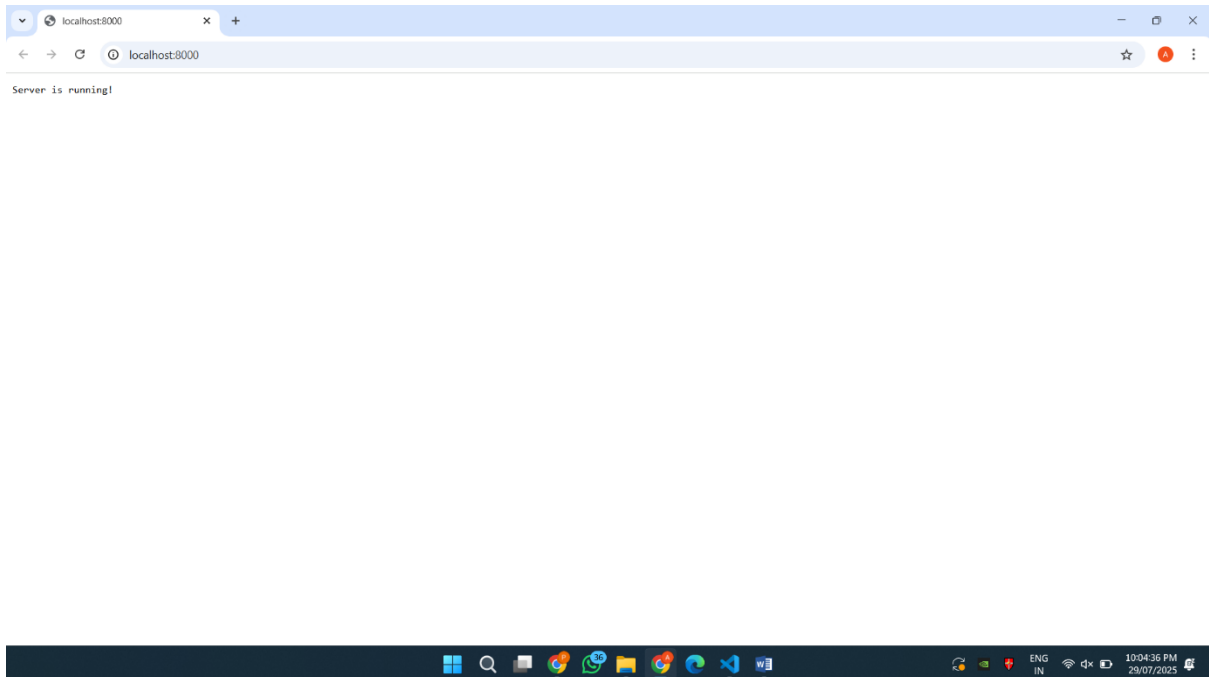
9. A program which calls useful functions in fs modile.

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PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                    powershell - question_9   + ∨   □   🗑   ⋯   [ ]   ×

● PS E:\Node\042_AryanPatel_701_A1\question_9> node fsDemo.js
  File created and written.
  File content:
  This is the initial content.

  Data appended.
  File renamed to 'renamed_example.txt'
  File deleted.
● PS E:\Node\042_AryanPatel_701_A1\question_9> █
```
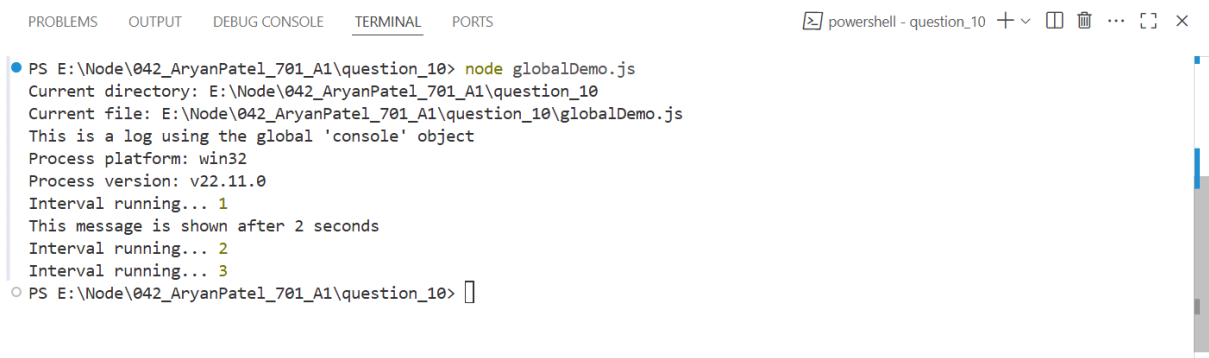
10. A program which uses global objects in nodejs.

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PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                    powershell - question_10   + ∨   □   🗑   ⋯   [ ]   ×

● PS E:\Node\042_AryanPatel_701_A1\question_10> node globalDemo.js
  Current directory: E:\Node\042_AryanPatel_701_A1\question_10
  Current file: E:\Node\042_AryanPatel_701_A1\question_10\globalDemo.js
  This is a log using the global 'console' object
  Process platform: win32
  Process version: v22.11.0
  Interval running... 1
  This message is shown after 2 seconds
  Interval running... 2
  Interval running... 3
○ PS E:\Node\042_AryanPatel_701_A1\question_10> █
```

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