Name: kanjariya smit o.

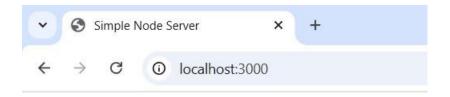
Sem.: 7 Roll No.: 47 Div.: A ------

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 AJAX call API can be used.)



Q2. Develop a web server which serves static resources.



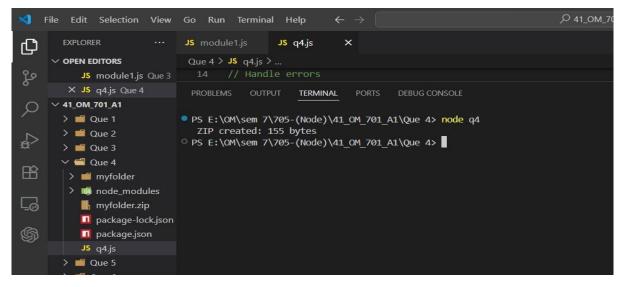
Hello from Node.js!

Q3. Develop a module for domain specific chatbot and use it in a command line application.

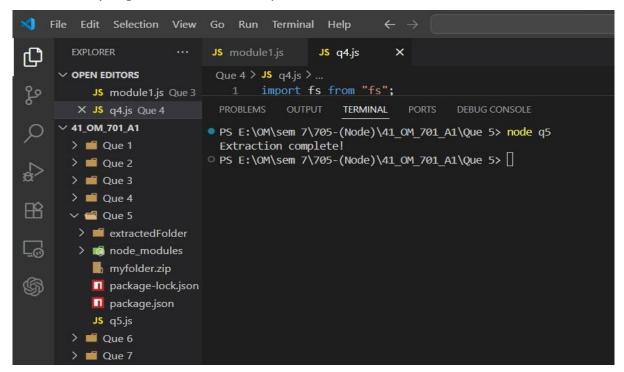
```
PROBLEMS OUTPUT TERMINAL PORTS DEBUGCONSOLE

PS E:\OM\sem 7\705-(Node)\41_OM_701_A1\Que 3> node q3
You =>> Hi
TravelBot ==> Hello! Ready to explore the world?
You ==> What is your name
TravelBot ==> I'm TravelBot, your travel companion!
You ==> How many year old your company
TravelBot ==> I'm 3 years old — young but well-traveled!
You ==> where are you from
TravelBot ==> I'm based in Mumbai, but I know places all over the globe!
You ==> please recommend place to travel
TravelBot ==> I recommend visiting Kyoto for culture, Bali for beaches, and Iceland for adventure!
You ==> what is advice and tip from you to travel
TravelBot ==> Always carry a power bank, learn a few local phrases, and respect local customs!
You ==> []
```

Q4. Write a program to create a compressed zip file for a folder.



Q5. Write a program to extract a zip file.



Q6. Write a program to promisify fs.unlink function and call it.

```
04
File Edit Selection View Go Run Terminal Help
   EXPLORER
                         JS module1.js
                                          file1.txt
                                                          JS q6.js
                                                                      X

∨ OPEN EDITORS

                         Que 6 > JS q6.js > ...
                            1 import fs from "fs";
      JS module1.js Que 3
                                 import util from "util";
      file1.txt Que 6\files
    X JS q6.js Que 6
∨41_0... [4 日 ひ 自
                                 const unlinkFile = util.promisify(fs.unlink);
   > ii Que 1
    Que 2
                                 // Delete the file using Promises
                                 unlinkFile('./files/file1.txt')
    Que 3
                                   .then(() => {
    Que 4
                                     console.log(' File deleted!');
   > ii Que 5
   ∨ 📹 Que 6
                                   .catch((err) => {
    ∨ 📹 files
                                     console.error(' Error deleting file:', err.message);
      package.json
                                   });
      JS q6.js
   > 🔳 Que 7
                                    OUTPUT
                                             TERMINAL
                          PS E:\OM\sem 7\705-(Node)\41_OM_701_A1\Que 6> node q6
                           File deleted!
    Que 10
                          PS E:\OM\sem 7\705-(Node)\41 OM 701 A1\Que 6>
   > ii Que 11
```

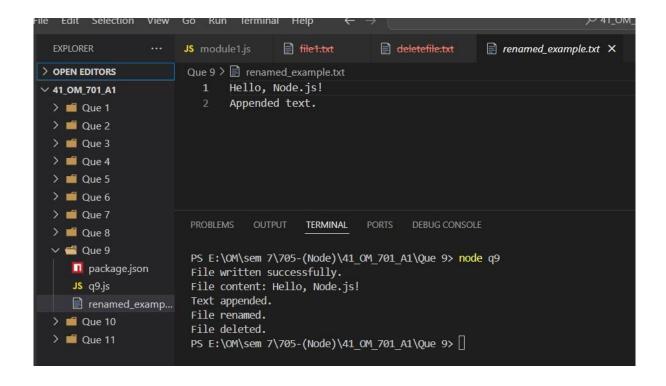
Q7. Fetch data of google page using note-fetch using async-await model.

```
file1.txt
                                  JS q7.js
 Que 7 > JS q7.js > ...
       import fetch from "node-fetch";
        async function fetchGooglePage() {
          const response = await fetch('https://www.google.com');
           const html = await response.text();
            console.log('Google page fetched successfully!');
           console.log('
          console.log(html.substring(0, 100)); // Print first 100 characters
console.log('----');
        } catch (error) {
    console.error(' Error fetching Google page:', error.message);
}
 PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE
PS E:\OM\sem 7\705-(Node)\41_OM_701_A1\Que 7> node q7
 Google page fetched successfully!
 <!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN"><head><meta cont
OPS E:\OM\sem 7\705-(Node)\41_OM_701_A1\Que 7>
```

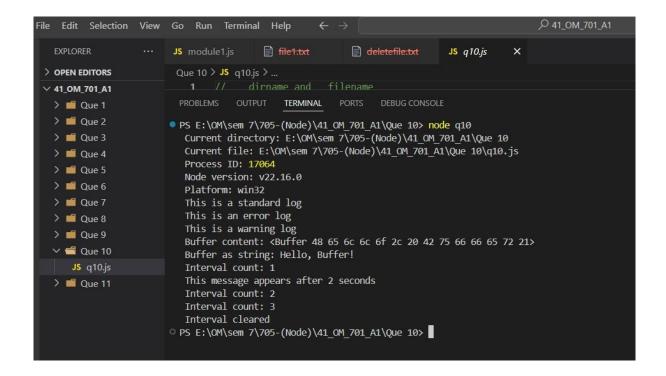
Q8. Set a server script, a test script and 3 user defined scripts in package.json file in your nodejs application.

```
Que 8 > 🔲 package.json > ...
          "type": "module",
          "scripts": {
            "start": "node server.js",
           "test": "node test.js",
            "dev": "nodemon server.js",
           "deploy": "echo 'Deploying app...'",
"format": "prettier --write ."
          },
"keywords": [],
          "author": "",
          "license": "ISC"
          "description": ""
 PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE
PS E:\OM\sem 7\705-(Node)\41_OM_701_A1\Que 8> npm run format
 > que-8@1.0.0 format
 > prettier --write .
 package-lock.json 282ms (unchanged)
 package.json 4ms (unchanged)
 server.js 69ms
  test.js 2ms (unchanged)
OPS E:\OM\sem 7\705-(Node)\41 OM 701 A1\Que 8>
```

Q9. A program which calls useful functions in fs module.



Q10. A program which uses global objects in nodejs.



Q11. Develop a useful package and publish it on npmjs.com

