Name : kanjariya smit o.

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

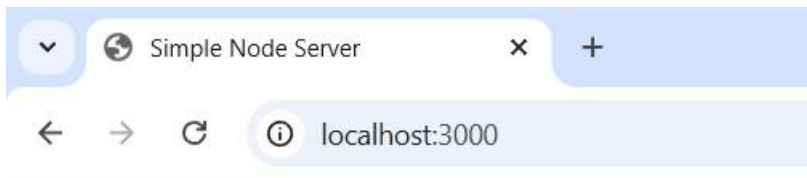
Q1. Develop nodejs application with following requirements:
- Develop a route "/gethello" with GET method. It displays "Hello NodeJS!!" as
  response.
- Make an HTML page and display.
- Call "/gethello" route from HTML page using AJAX call. (Any frontend AJAX call
  API can be used.)

Q2. Develop a web server which serves static resources.
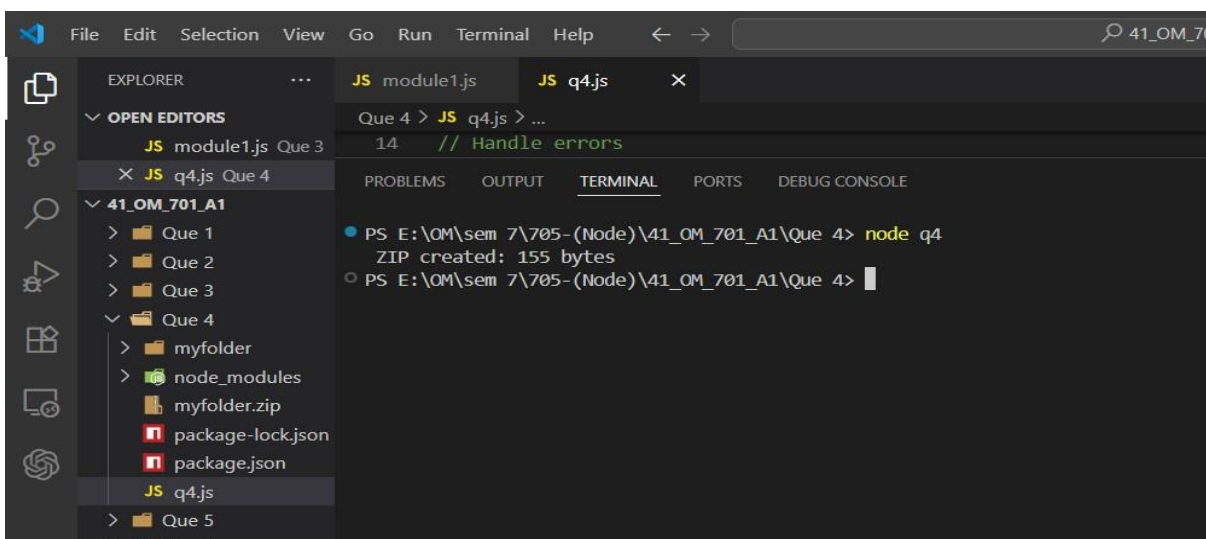
Simple Node Server

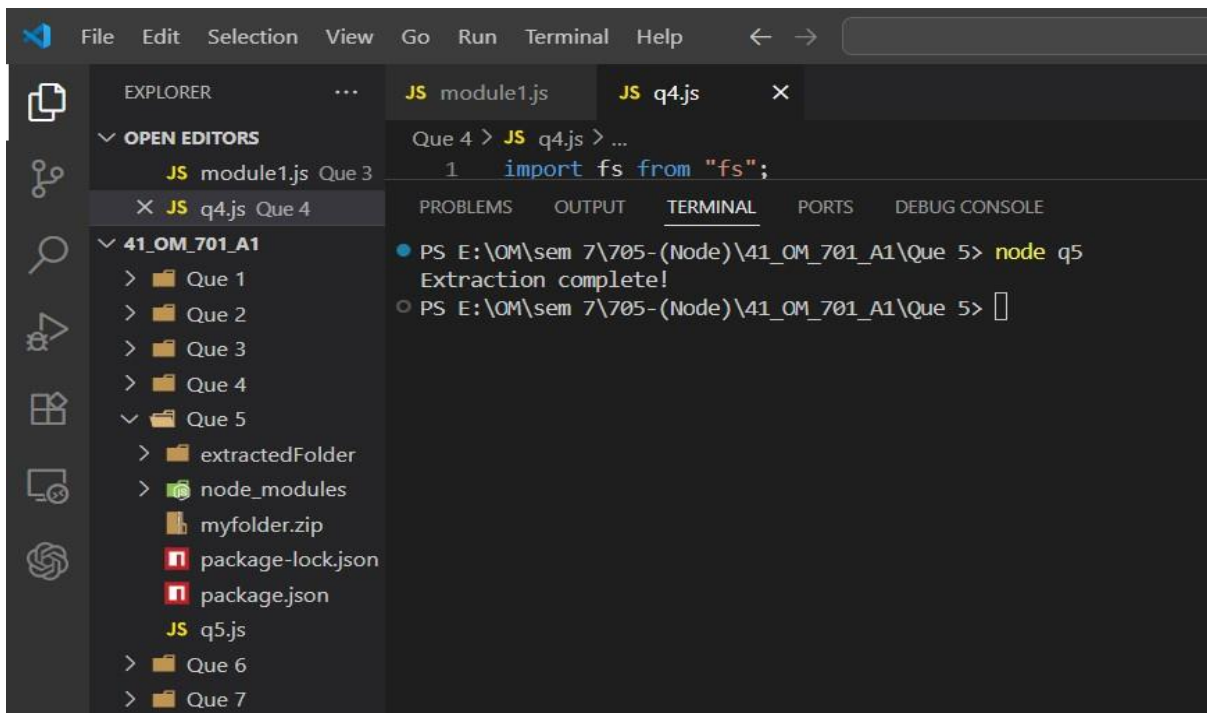localhost:3000

Hello from Node.js!

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


```
PROBLEMS   OUTPUT   TERMINAL   PORTS   DEBUG CONSOLE

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 ==>
```

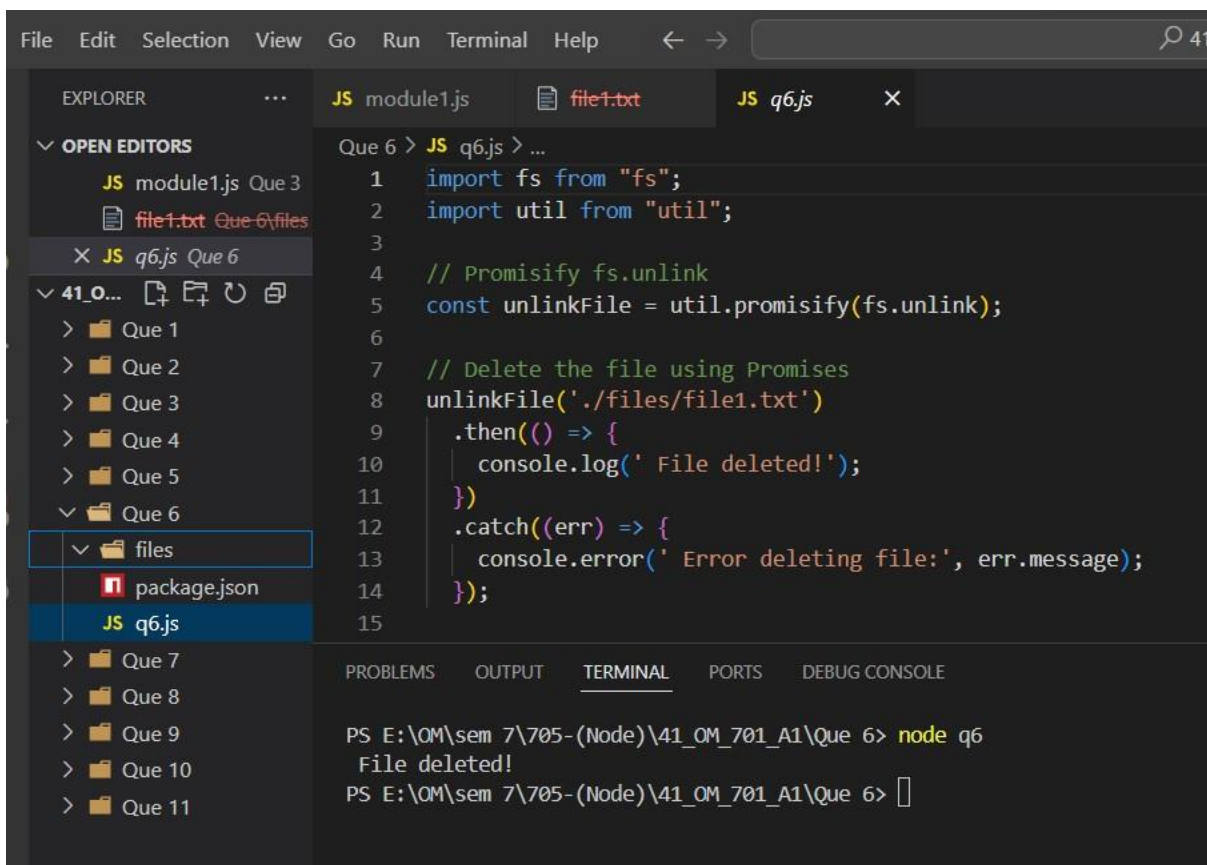Q4. Write a program to create a compressed zip file for a folder.


```
File  Edit  Selection  View  Go  Run  Terminal  Help                                               41_OM_70

EXPLORER                    JS module1.js        JS q4.js        ×

OPEN EDITORS                Que 4 > JS q4.js > ...
    JS module1.js  Que 3        14      // Handle errors
  × JS q4.js  Que 4
41_OM_701_A1                PROBLEMS   OUTPUT   TERMINAL   PORTS   DEBUG CONSOLE
  > Que 1
  > Que 2                   PS E:\OM\sem 7\705-(Node)\41_OM_701_A1\Que 4> node q4
  > Que 3                     ZIP created: 155 bytes
  ∨ Que 4                   PS E:\OM\sem 7\705-(Node)\41_OM_701_A1\Que 4>
    > myfolder
    > node_modules
      myfolder.zip
      package-lock.json
      package.json
      JS q4.js
  > Que 5
```

Q5. Write a program to extract a zip file.

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

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

```
JS module1.js        file1.txt        JS q7.js        ×

Que 7 > JS q7.js > ...
  1    import fetch from "node-fetch";
  2
  3    async function fetchGooglePage() {
  4      try {
  5        const response = await fetch('https://www.google.com');
  6        const html = await response.text();
  7        console.log('Google page fetched successfully!');
  8        console.log('-----------------------------------------');
  9        console.log(html.substring(0, 100)); // Print first 100 characters
 10        console.log('-----------------------------------------');
 11      } catch (error) {
 12        console.error(' Error fetching Google page:', error.message);
 13      }
 14    }
 15

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
-----------------------------------------
○ PS 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 > ...
  5        "type": "module",
           ▷ Debug
  6        "scripts": {
  7          "start": "node server.js",
  8          "test": "node test.js",
  9          "dev": "nodemon server.js",
 10          "deploy": "echo 'Deploying app...'",
 11          "format": "prettier --write ."
 12        },
 13        "keywords": [],
 14        "author": "",
 15        "license": "ISC",
 16        "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)
○ PS E:\OM\sem 7\705-(Node)\41_OM_701_A1\Que 8> █
```

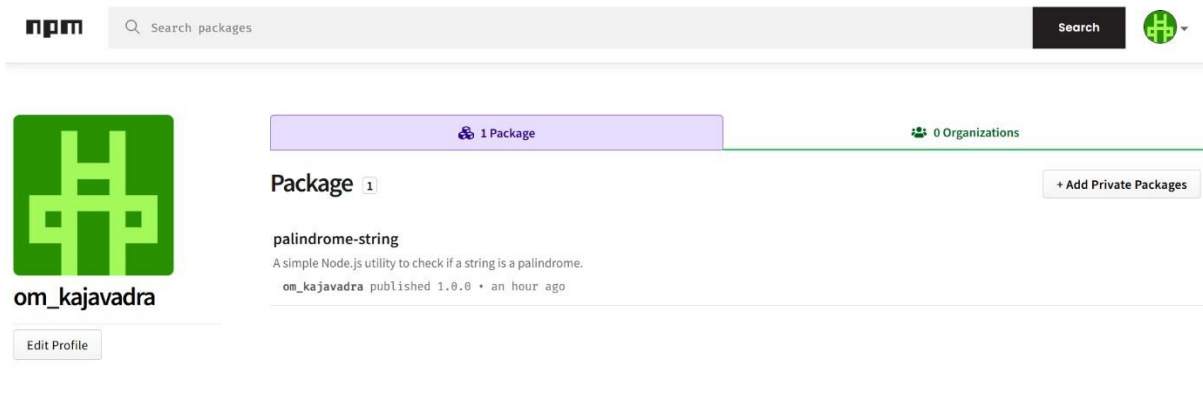Q9. A program which calls useful functions in fs module.

Q10. A program which uses global objects in nodejs.

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