1. Develop nodejs application with following requirements:

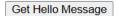
- Develop a route "/gethello" with GET method. It displays "Hello NodeJS!!" as response.
- Make an HTML page and display.
- Call "/gethello" route from HTML page using AJAX call. (Any frontend AJAX call API can be used.)

Output:-

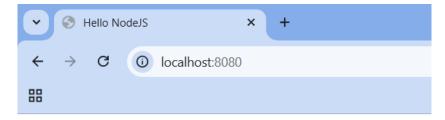
Before the Message:-



Welcome to NodeJS App



After the Message:-



Welcome to NodeJS App

Get Hello Message

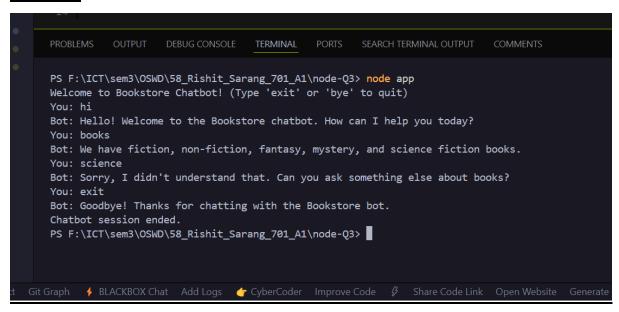
Hello NodeJS!!

2. Develop a web server which serves static resources.

Output:-

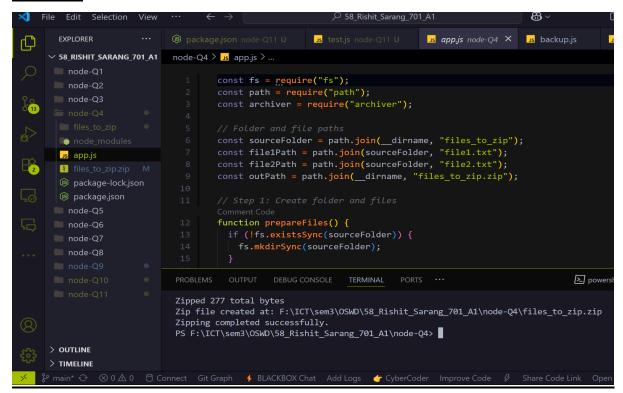


3. Develop a module for domain specific chatbot and use it in a command line application.



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

Output:-



5. Write a program to extract a zip file.

```
📢 File Edit Selection View
                                                                                                                                                                                            08 🔲 🗀 🗇
                                             (S) package ison node-Q11 U
                                                                                             is test.js node-Q11 U is app.js node-Q4 X is backup.js
                                                                                                                                                                                                                     ▷ □ …
                                                                                                                                                                                            us greet.js
        ∨ 58_RISHIT_SARANG_701_A1 node-Q4 > Js app.js > ...
                                                             const fs = require("fs");
const path = require("path");
const archiver = require("archiver");
           node-Q3
                                                             // Folder and file paths
const sourceFolder = path.join(_dirname, "files_to_zip");
const file1Path = path.join(sourceFolder, "file1.txt");
const file2Path = path.join(sourceFolder, "file2.txt");
const outPath = path.join(_dirname, "files_to_zip.zip");
          node-Q5
            node_module
           us app.js
            package-lock.json
           package.json
                                                              function prepareFiles() {
  if (!fs.existsSync(sourceFolder)) {

    powershell + ∨ □ □ ··· □ ×

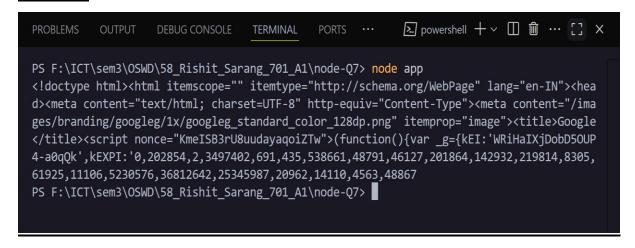
                                                 PS F:\ICT\sem3\OSWD\58_Rishit_Sarang_701_A1\node-Q5> node app Extracting F:/ICT/sem3/OSWD/58_Rishit_Sarang_701_A1/node-Q4/files_to_zip.zip to F:/ICT/sem3/OSWD/58_Rishit_Sarang_701_A1/node-Q5/files_to_zip.zip ...
                                                 Extraction complete!
PS F:\ICT\sem3\OSWD\58_Rishit_Sarang_701_A1\node-Q5>
PS F:\ICT\sem3\OSWD\58_Rishit_Sarang_701_A1\node-Q5>
        > OUTLINE
                        ⊗ 0 ≜ 0 🗇 Connect Git Graph 🔸 BLACKBOX Chat Add Logs 👉 CyberCoder Improve Code Waiting for inactivity... 👂 Share Code Link Open Website
```

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

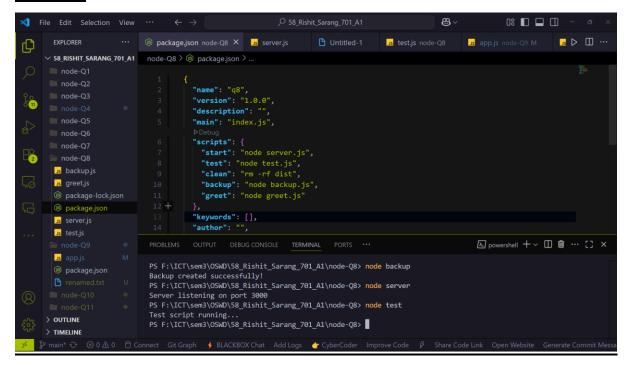
```
\leftarrow \rightarrow
                                88 ~
                            us test.js node-Q11 U
                                                                      Js backup.js
                                                   Js app.js node-Q6 X
node-Q6 > Js app.js > ...
        const fs = require('fs');
        const util = require('util');
        const unlinkAsync = util.promisify(fs.unlink);
        async function deleteFile(filePath) {
           try {
             await unlinkAsync(filePath);
            console.log(`File deleted successfully: ${filePath}`);
           } catch (err) {
             console.error(`Error deleting file: ${err.message}`);
         }
PROBLEMS
           OUTPUT
                    DEBUG CONSOLE
                                   TERMINAL
                                             PORTS
PS F:\ICT\sem3\OSWD\58_Rishit_Sarang_701_A1\node-Q6> node app
Created file: ./fileToDelete.txt
File deleted successfully: ./fileToDelete.txt
```

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

Output:-

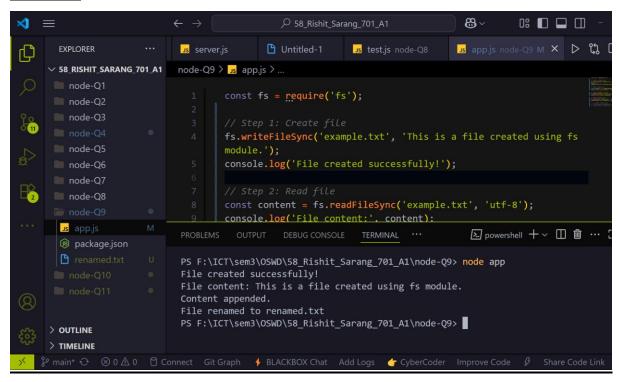


8. Set a server script, a test script and 3 user defined scripts in package.json file in your nodejs application.



9. A program which calls useful functions in fs modile.

Output:-



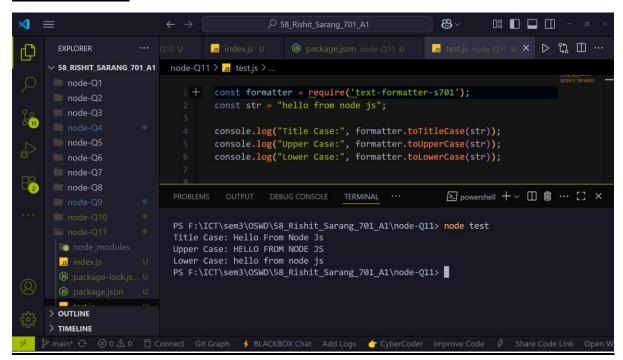
10.A program which uses global objects in nodejs.

```
83 ~
                                                             ≥ powershell + ∨ □ • ··· □ ×
         OUTPUT
                  DEBUG CONSOLE
                                TERMINAL
PS F:\ICT\sem3\OSWD\58_Rishit_Sarang_701_A1\node-Q10> node app
Current Directory (__dirname): F:\ICT\sem3\OSWD\58_Rishit_Sarang_701_A1\node-Q10
Current File ( filename): F:\ICT\sem3\OSWD\58 Rishit Sarang 701 A1\node-Q10\app.js
Process Information:
Node.js Version: v20.10.0
Platform: win32
Process ID: 11812
Current Working Directory: F:\ICT\sem3\OSWD\58_Rishit_Sarang_701_A1\node-Q10
This message is shown after 2 seconds (using setTimeout)
setInterval execution count: 1
setInterval execution count: 2
setInterval execution count: 3
Interval cleared after 3 times
PS F:\ICT\sem3\OSWD\58_Rishit_Sarang_701_A1\node-Q10> \
```

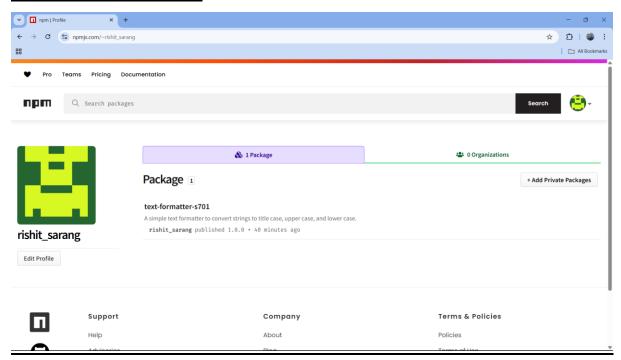
11.Develop a useful package and publish it on npmjs.com

Output:-

Test.js Otput:-



Package in npmjs.com:-



<u>GitHub Link: - https://github.com/Rishitsarang/OSWD</u>