## Practical Assignment 1

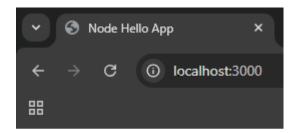
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Subject: 304 Open Source Web Development

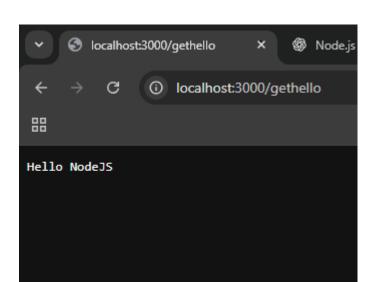
Roll No: 61

Class: ICT

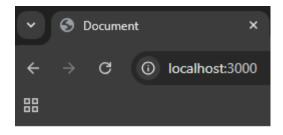
- 1. Develop nodejs application with following requirements:
  - Develop a route "/gethello" with GET method. It displays "Hello NodeJS!!" as response.
  - Make an HTML page and display.
  - Call "/gethello" route from HTML page using AJAX call. (Any frontend AJAX call API can be used.)



## Hello NodeJS



2. Develop a web server which serves static resources.



This is static page

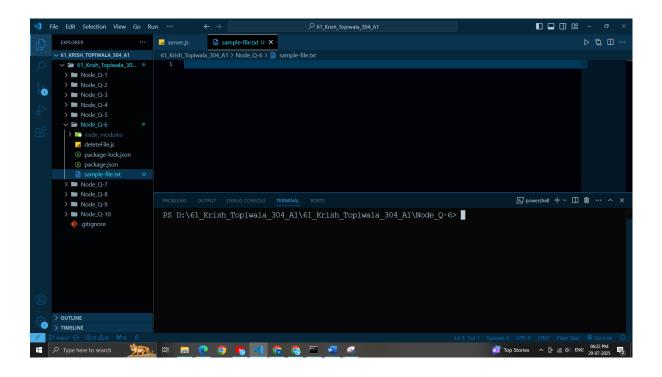
3. Develop a module for domain specific chatbot and use it in a command line application.

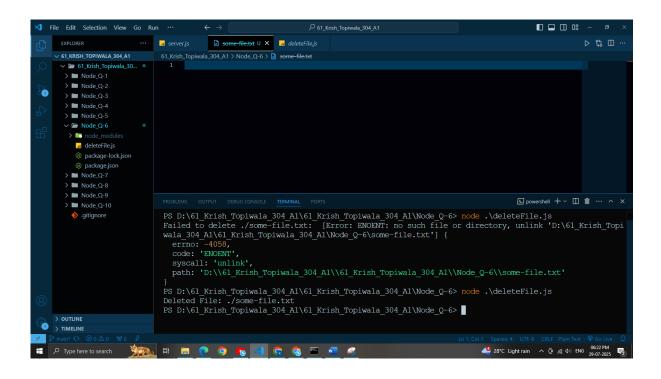
```
PROBLEMS
OUTPUT
DEBUG CONSOLE TERMINAL PORTS

PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\Node_Q-3> node app.js
IT Helpdesk Bot at your service. Type 'exit' to quit.
You > hi
BOT > Hello! How can I assist you today?
You > wifi
BOT > Check your network settings or contact the IT team at it@company.com.
You > exit
Goodbye!
PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\Node_Q-3>
```

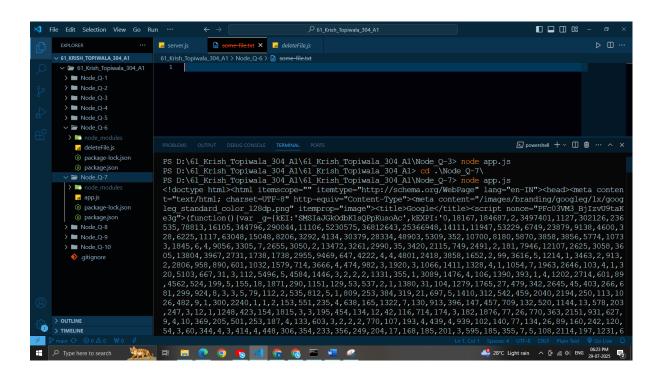
4. Write a program to create a compressed zip file for a folder.

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.

```
PS D:\61_Krish_Topiwala_304_A1\cd .\61_Krish_Topiwala_304_A1\
PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\cd .\Node_Q-8\
PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\Node_Q-8> node server.js
Server is listening at 5000
PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\Node_Q-8> node test.js
This is a test script
PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\Node_Q-8>
```

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

```
PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\Node_Q-8> cd ..

PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1> cd .\Node_Q-9\

PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\Node_Q-9> node app.js

File created successfully

File content This is a sample text file

Content appended

File renamed

PS D:\61_Krish_Topiwala_304_A1\61_Krish_Topiwala_304_A1\Node_Q-9>
```

10. A program which uses global objects in nodejs.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\61 Krish Topiwala 304 A1\61 Krish Topiwala 304 A1\Node Q-10> node global.js
Current filename D:\61 Krish Topiwala 304 A1\61 Krish Topiwala 304 A1\Node Q-10\global.js
Current directory D:\61 Krish Topiwala 304 A1\61 Krish Topiwala 304 A1\Node Q-10
Process platform win32
Node version v20.11.0
Global variable Accessible from anywhere
Buffer content Hello, world!
Message appears after 3 seconds
PS D:\61 Krish Topiwala 304 A1\61 Krish Topiwala 304 A1\Node Q-10>
```