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SEM : 7TH

DIV : B

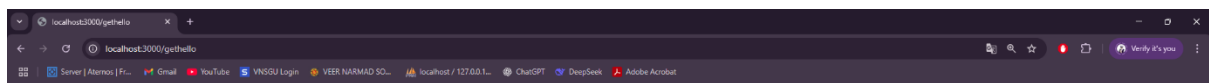
ROLL NO : 149

SUBJECT : PRACTICAL -15 (705)

ASSIGNMENT : 1

Q.1 Develop nodejs application with following requirements:

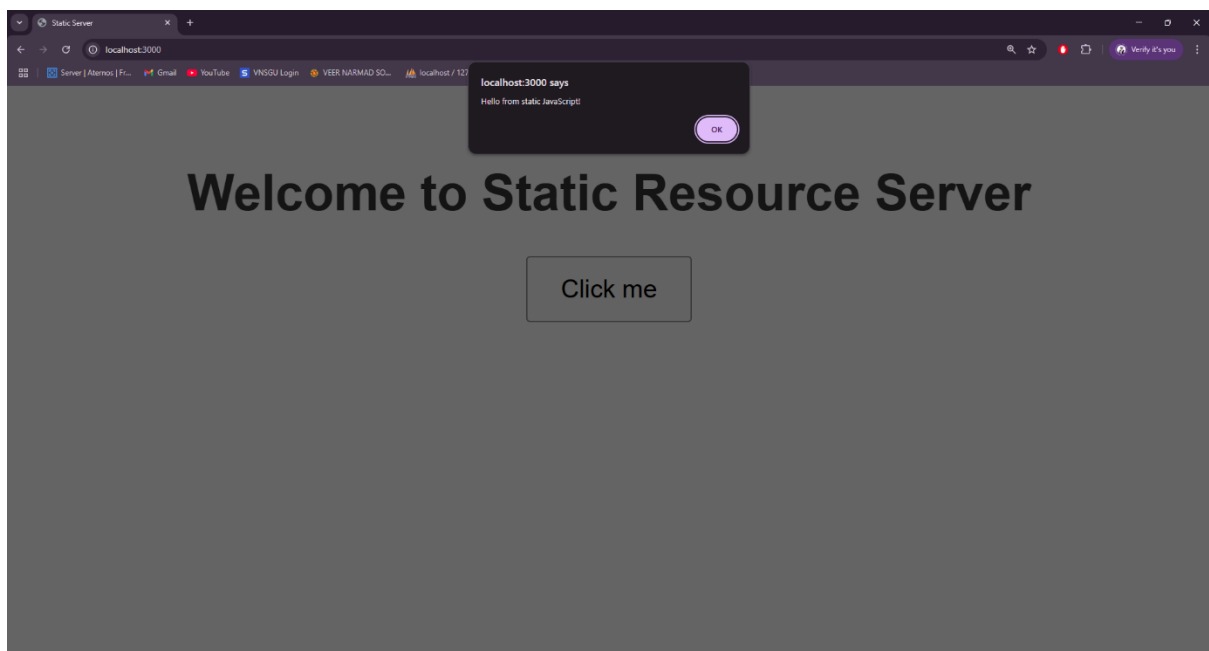
- Develop a route `"/gethello"` with GET method. It displays `"Hello NodeJS!!"` as response.
- Make an HTML page and display.
- Call `"/gethello"` route from HTML page using AJAX call. (Any frontend AJAX call API can be used.)



Hello NodeJS!!



Q.2 Develop a web server which serves static resources.



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

```
PS B:\sem7_149\full_stack\ASS_1\q3> node app.js
You: hi
Bot: Hi! I'm Jonsi
You: age
Bot: Sorry, I didn't get it :(
You: your age
Bot: I'm 23 years old.
You: how are you
Bot: I'm fine. What about you?
You: where you live
Bot: I live in India
You: study in which univercity
Bot: Hi! I'm Jonsi
You: univercity study
Bot: I study at VNSGU
```

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

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● PS B:\sem7_149\full_stack\ASS_1\q4> node app.js
  Folder zipped successfully!
○ PS B:\sem7_149\full_stack\ASS_1\q4> 
```

Q.5 Write a program to extract a zip file.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

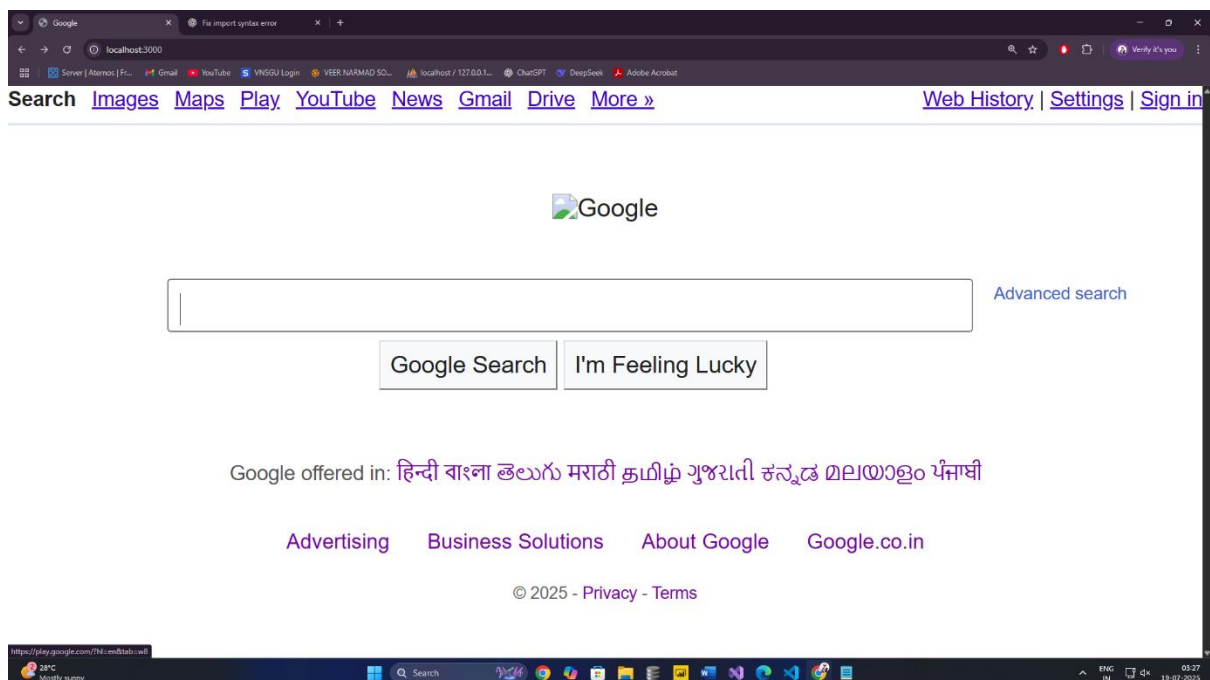
● PS B:\sem7_149\full_stack\ASS_1\q5> node app.js
  ZIP file extracted successfully!
○ PS B:\sem7_149\full_stack\ASS_1\q5> 
```

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

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● PS B:\sem7_149\full_stack\ASS_1\q6> node server.js
File deleted successfully.
○ PS B:\sem7_149\full_stack\ASS_1\q6> |
```

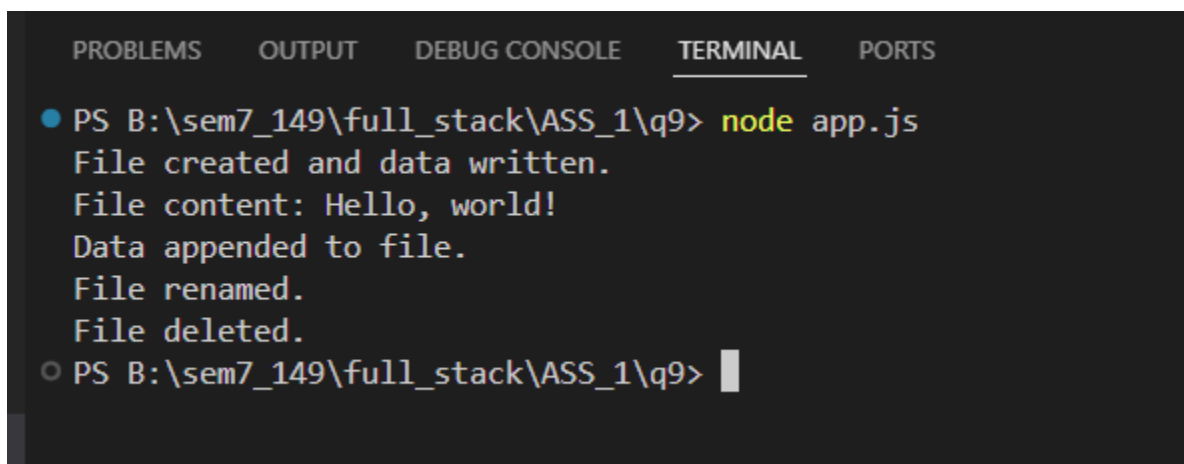
Q.7 Fetch data of google page using node-fetch using async-await model.



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

```
"scripts": {  
  "start": "node app.js",  
  "greet": "node scripts/greet.js",  
  "build": "node scripts/build.js",  
  "report": "node scripts/report.js",  
  "test": "echo \"Error: no test specified\" && exit 1"  
},
```

Q.9 A program which calls useful functions in fs module.



The screenshot shows a terminal window with the following content:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
```

- PS B:\sem7_149\full_stack\ASS_1\q9> node app.js
File created and data written.
File content: Hello, world!
Data appended to file.
File renamed.
File deleted.
- PS B:\sem7_149\full_stack\ASS_1\q9> █

Q.10 A program which uses global objects in nodejs.

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

- PS B:\sem7_149\full_stack\ASS_1\q10> node app.js
Directory : B:\sem7_149\full_stack\ASS_1\q10
File : B:\sem7_149\full_stack\ASS_1\q10\app.js
Node version : v18.18.2
platform : win32
myapp
- PS B:\sem7_149\full_stack\ASS_1\q10> █