

NAME-> BHARGVAI IRSADLA

SEM ->7

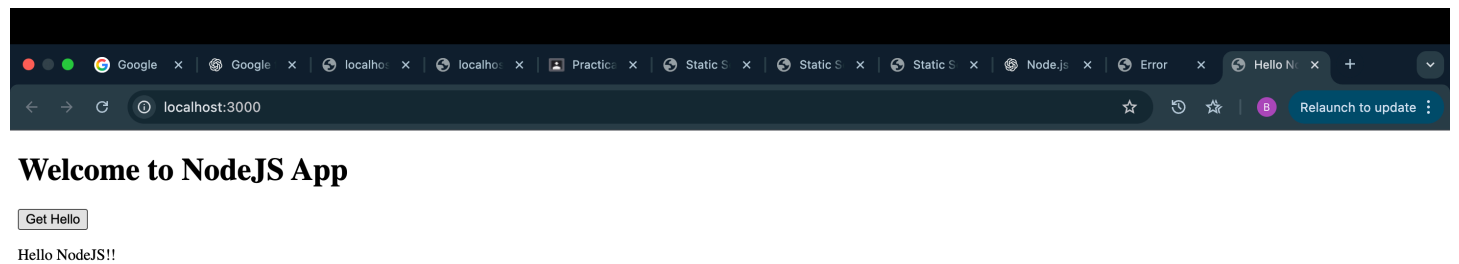
DIV-> A

ROLL NO-> 26

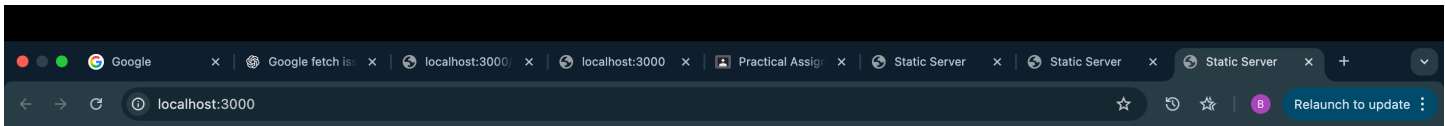
SUBJECT-> 701

PRACTICAL ASSIGNMENT - 1

ANS 1:

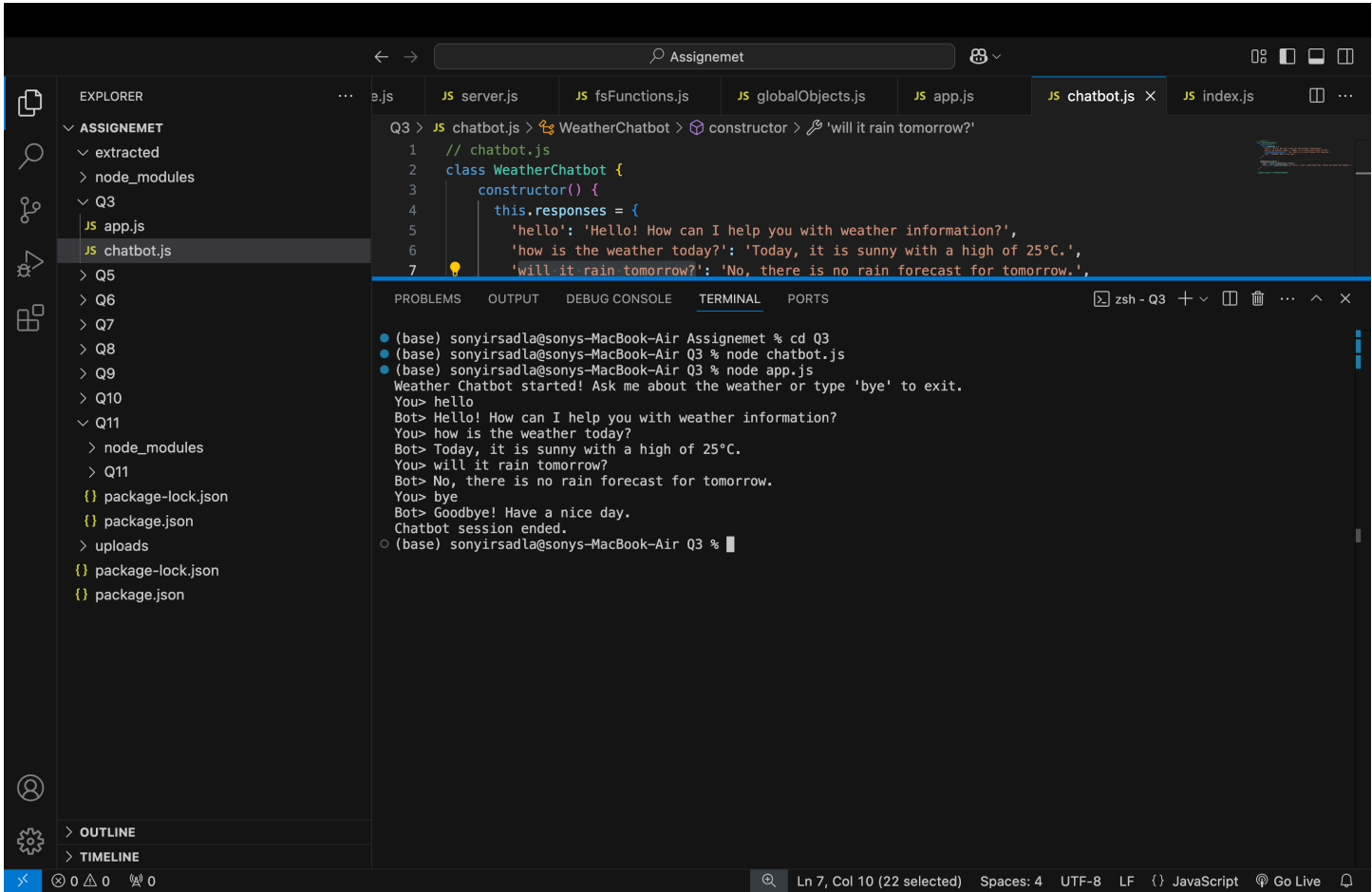


ANS 2:



Hello from static server!

ANS 3:



ANS 4:

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure with folders 'ASSIGNMENT_1', 'node_modules', 'Question_2', 'public', and 'Question_4'. Inside 'Question_4', there are files 'index.html', 'express.js', 'package-lock.json', 'package.json', 'Server.js', 'test1.txt', and 'zip-folder.js'. The file 'zip-folder.js' is open in the editor, showing the following code:

```
1 var fs = require("fs");
2 var zlib = require("zlib");
3 fs.createReadStream('test1.txt').pipe(zlib.createGzip())
4   .pipe(fs.createReadStream('test1.zip'))
5   console.log("Zip file is created !");
```

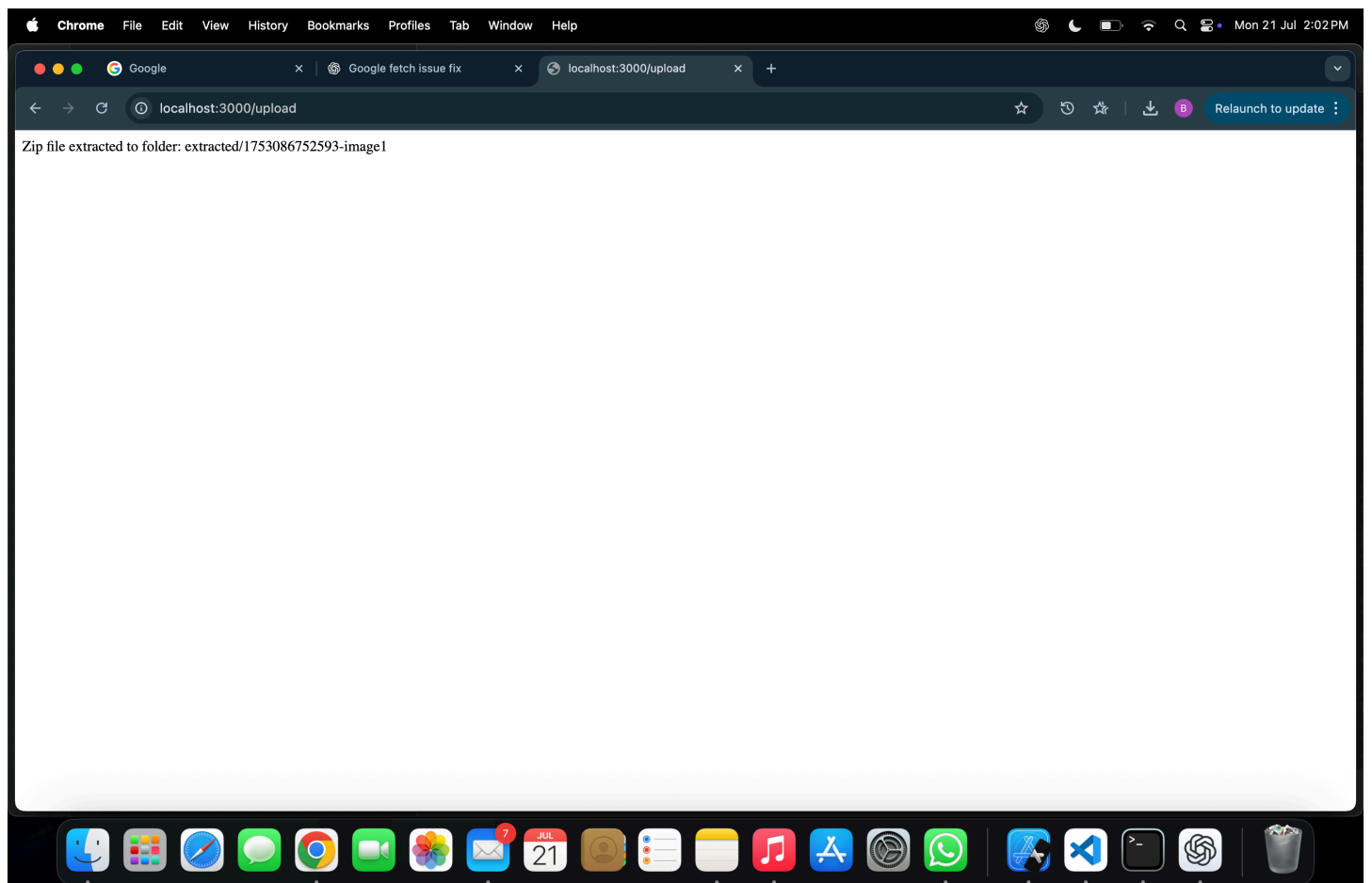
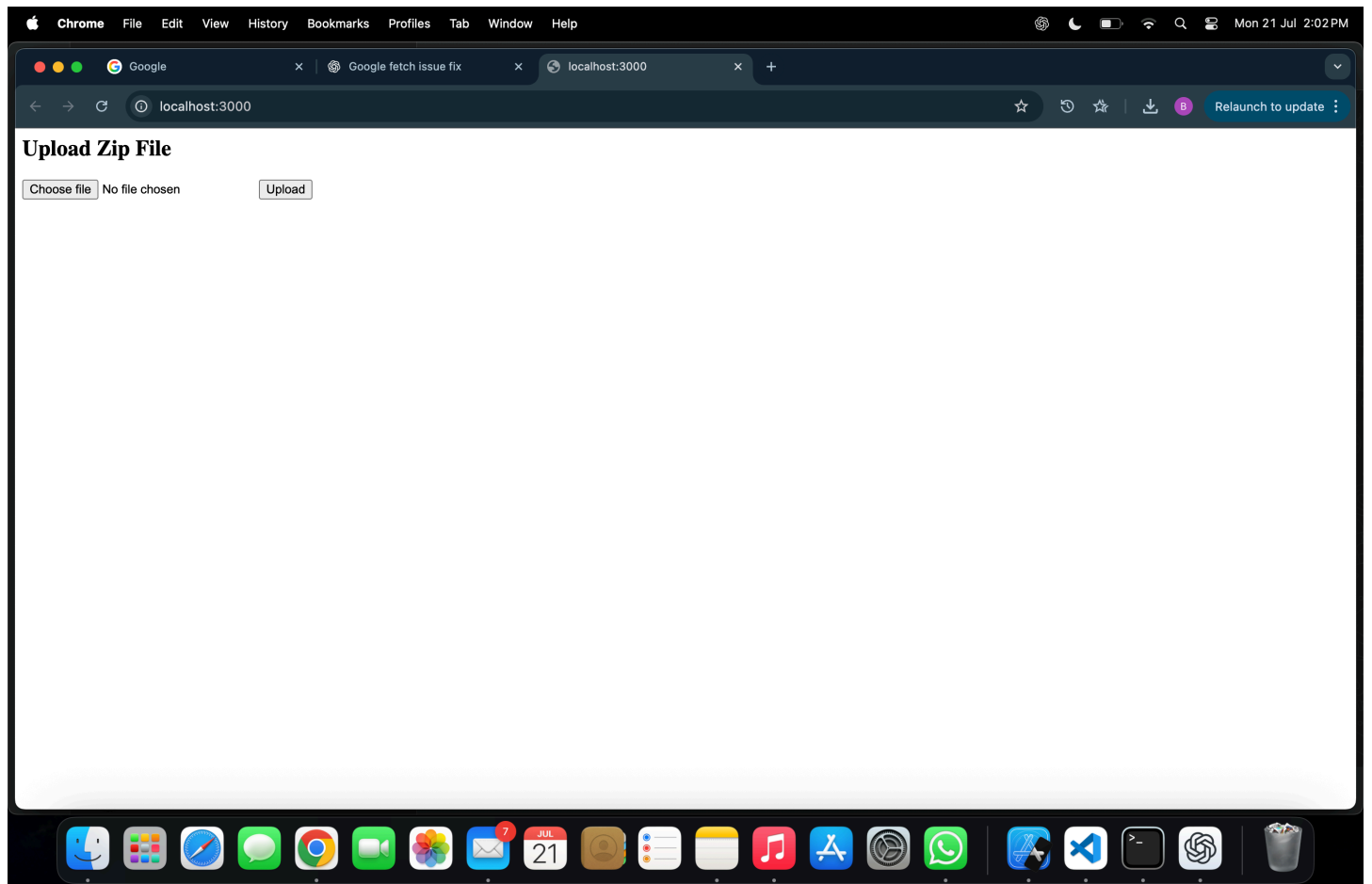
The terminal at the bottom shows the command `node zip-folder.js` being executed. The output indicates that the zip file was created successfully, but then an error occurred:

```
Zip file is created !
node:events:496
  throw er; // Unhandled 'error' event
  ^

Error: ENOENT: no such file or directory, open 'test1.zip'
Emitted 'error' event on ReadStream instance at:
    at ReadStream.onerror (node:internal/streams/readable:1028:14)
    at ReadStream.emit (node:events:518:28)
    at emitErrorNT (node:internal/streams/destroy:170:8)
    at emitErrorCloseNT (node:internal/streams/destroy:129:3)
    at process.processTicksAndRejections (node:internal/process/task_queues:90:21) {
  errno: -2,
  code: 'ENOENT',
  syscall: 'open',
  path: 'test1.zip'
}
```

The terminal prompt shows the user is in a shell at `sonyirsadla@sonys-MacBook-Air Question_4 %`.

ANS 5:



ANS 6:

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project named 'ASSIGNEMET' with the following structure:

- extracted
- node_modules
- Q5
- Q6
 - deleteFile.js
- Q7
 - node_modules
 - fetchGoogle.js
 - package-lock.json
 - package.json
- Q8
 - node_modules
 - package-lock.json
 - package.json
 - server.js
- Q9
- Q10
- Q11
- uploads
 - package-lock.json
 - package.json

The main editor area shows the 'fetchGoogle.js' file with the following code:

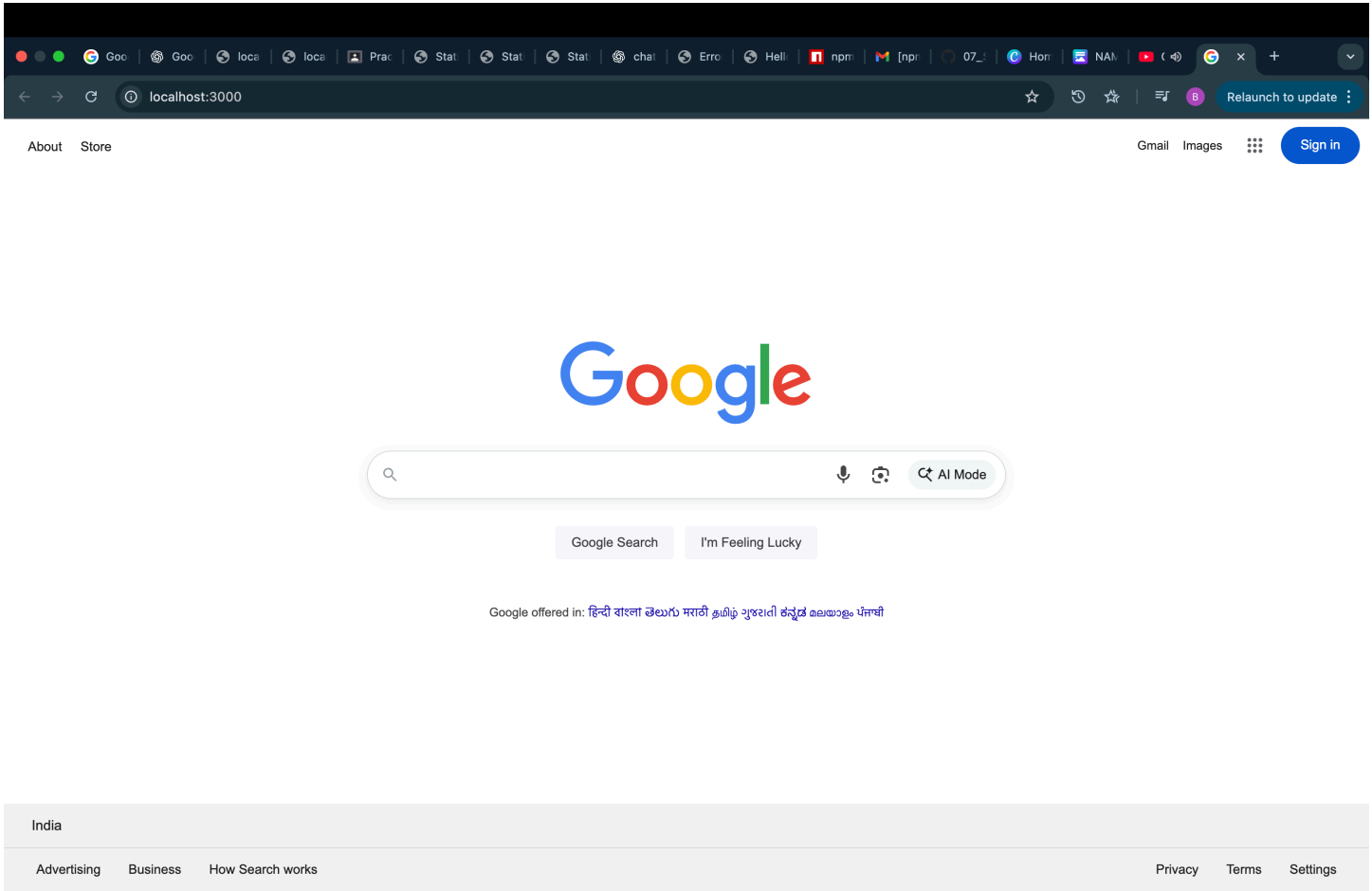
```
Q7 > JS fetchGoogle.js > ...
1  const express = require("express");
2  const fetch = require("node-fetch");
3
4  const app = express();
5
```

The TERMINAL panel at the bottom shows the following output:

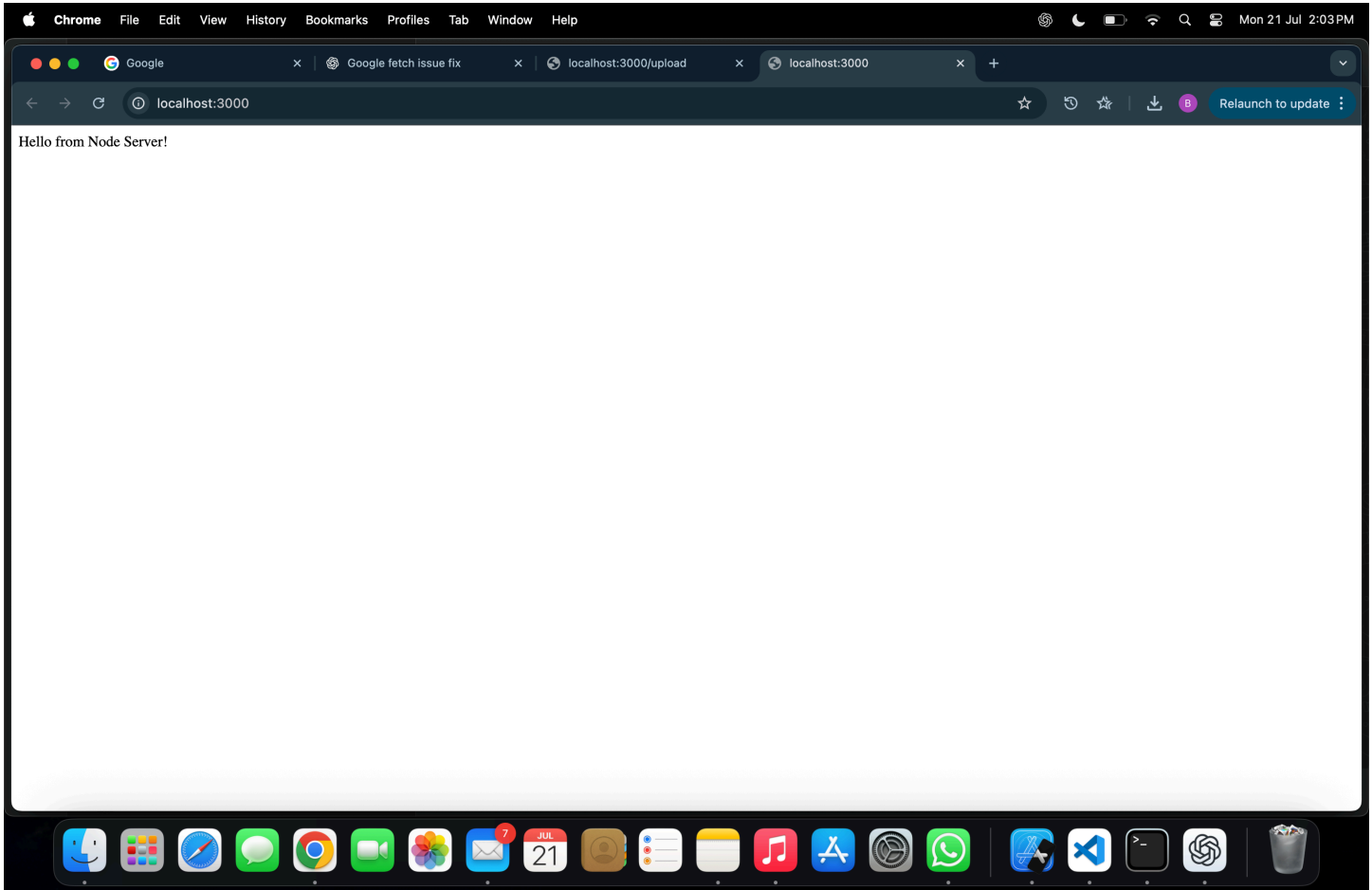
```
(base) sonyirsadla@sonys-MacBook-Air Assignemet % cd Q6
(base) sonyirsadla@sonys-MacBook-Air Q6 % node deleteFile.js
File deleted
(base) sonyirsadla@sonys-MacBook-Air Q6 %
```

The status bar at the bottom indicates the current position is 'Ln 24, Col 1' in a JavaScript file, with 'Spaces: 2', 'UTF-8', 'CRLF' encoding, and 'Go Live' button.

ANS 7:



ANS 8:



ANS 9:

The screenshot shows the VS Code editor interface. The Explorer panel on the left displays a project named 'Assignemet' with a file structure including 'extracted', 'node_modules', 'Q1' (with 'index.html'), 'Q5', 'Q6', 'Q7' (with 'node_modules', 'fetchGoogle.js', 'package-lock.json', 'package.json'), 'Q8', 'Q9' (with 'data.txt', 'data1.txt', 'fsFunctions.js'), 'Q10' (with 'globalObjects.js'), 'Q11', 'uploads', 'package-lock.json', and 'package.json'. The main editor area shows the 'data.txt' file with the content '1 hello world'. The Terminal panel at the bottom shows the command prompt 'zsh - Q9' and the command 'cd Q9' being executed.

```
Q9 > cat data.txt
1 hello world
```

```
(base) sonyirsadla@sonys-MacBook-Air Assignemet % cd Q9
(base) sonyirsadla@sonys-MacBook-Air Q9 %
```

The screenshot shows the VS Code editor interface. The Explorer panel on the left displays a project named 'Assignemet' with a file structure including 'extracted', 'node_modules', 'Q1' (with 'index.html'), 'Q5', 'Q6', 'Q7' (with 'node_modules', 'fetchGoogle.js', 'package-lock.json', 'package.json'), 'Q8', 'Q9' (with 'data.txt', 'data1.txt', 'fsFunctions.js'), 'Q10' (with 'globalObjects.js'), 'Q11', 'uploads', 'package-lock.json', and 'package.json'. The main editor area shows the 'data.txt' file with the content '1 hello world'. The Terminal panel at the bottom shows the command prompt 'zsh - Q9' and the command 'node fsFunctions.js' being executed, followed by the output of the script.

```
Q9 > cat data.txt
1 hello world
```

```
(base) sonyirsadla@sonys-MacBook-Air Assignemet % cd Q9
(base) sonyirsadla@sonys-MacBook-Air Q9 % node fsFunctions.js
Read: This is original content
After Append: This is original content
This is appended content
File renamed
File deleted
(base) sonyirsadla@sonys-MacBook-Air Q9 %
```

ANS 10:

The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays a project structure for 'ASSIGNEMET' with folders 'extracted', 'node_modules', 'Q1', 'Q5', 'Q6', 'Q7', 'Q8', 'Q9', 'Q10', 'Q11', and 'uploads'. The 'Q10' folder is expanded, showing files 'fetchGoogle.js', 'package-lock.json', 'package.json', and 'globalObjects.js'. The 'globalObjects.js' file is selected and its code is visible in the editor. The code defines a directory and filename, then uses a timeout to log a message after 2 seconds and an interval to log a message every 3 seconds. The terminal at the bottom shows the execution of the script, displaying the directory, file path, and the messages as they appear in the console.

```
Q10 > JS globalObjects.js > ...
1 console.log("Directory:", __dirname);
2 console.log("File:", __filename);
3
4 setTimeout(function () {
5     console.log("This message shows after 2 seconds");
6 }, 2000);
7
8 setInterval(function () {
9     console.log("This message repeats every 3 seconds");
10 }, 3000);
11
```

Terminal Output:

```
(base) sonyirsadla@sonys-MacBook-Air Assignemet % cd Q10
(base) sonyirsadla@sonys-MacBook-Air Q10 % node globalObjects.js
Directory: /Users/sonyirsadla/Downloads/Assignemet/Q10
File: /Users/sonyirsadla/Downloads/Assignemet/Q10/globalObjects.js
Name from global object: bhargavi
This message shows after 2 seconds
This message repeats every 3 seconds
This message repeats every 3 seconds
This message repeats every 3 seconds
This message repeats every 3 seconds
This message repeats every 3 seconds
^C
(base) sonyirsadla@sonys-MacBook-Air Q10 %
```

ANS 11:

← →

Assignemet

⌵

⌵

⌵

⌵

EXPLORER

ASSIGNEMET

extracted

node_modules

Q1

public

index.html

server.js

Q3

app.js

chatbot.js

Q5

Q6

Q7

Q8

Q9

Q10

Q11

node_modules

index.js

package-lock.json

package.json

stringUtils.js

uploads

package-lock.json

package.json

OUTLINE

TIMELINE

JS chatbot.js

JS server.js Q1

index.html

JS index.js

JS stringUtils.js

JS fetchGoogle.js

Q11 > JS index.js > ...

1 const utils=require('bhargavi-string')

2

3

4 console.log(utils.capitalize("hello")); // Hello

5 console.log(utils.reverse("world")); // dlrow

6 // console.log(utils.isPalindrome("madam")); // true

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

(base) sonyirsadla@sonys-MacBook-Air Q11 % nodemon index

[nodemon] 3.1.10

[nodemon] to restart at any time, enter `rs`

[nodemon] watching path(s): *.*

[nodemon] watching extensions: js,mjs,cjs,json

[nodemon] starting `node index.js`

Hello

dlrow

zsh

node Q11

Ln 6, Col 53

Spaces: 2

UTF-8

CRLF

{ } JavaScript

Go Live