

**Name : Monax Bhadiyadara**

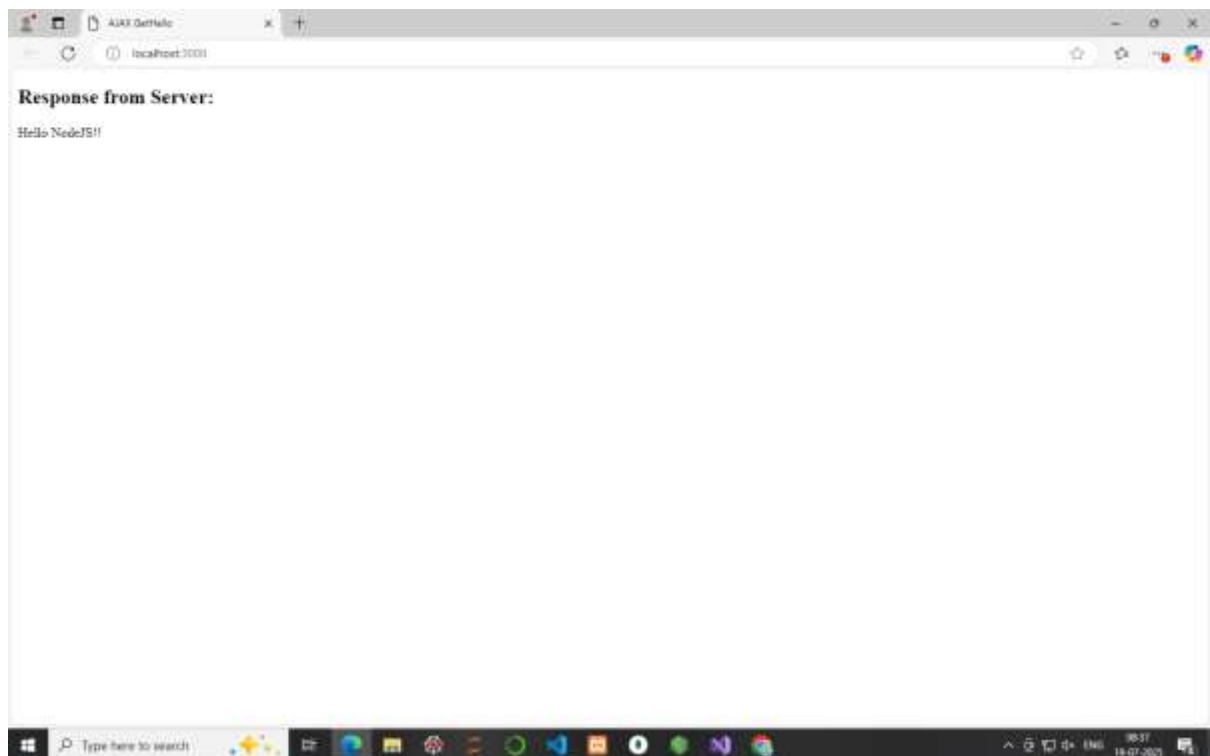
**Semester : 7<sup>th</sup>**

**Division : A**

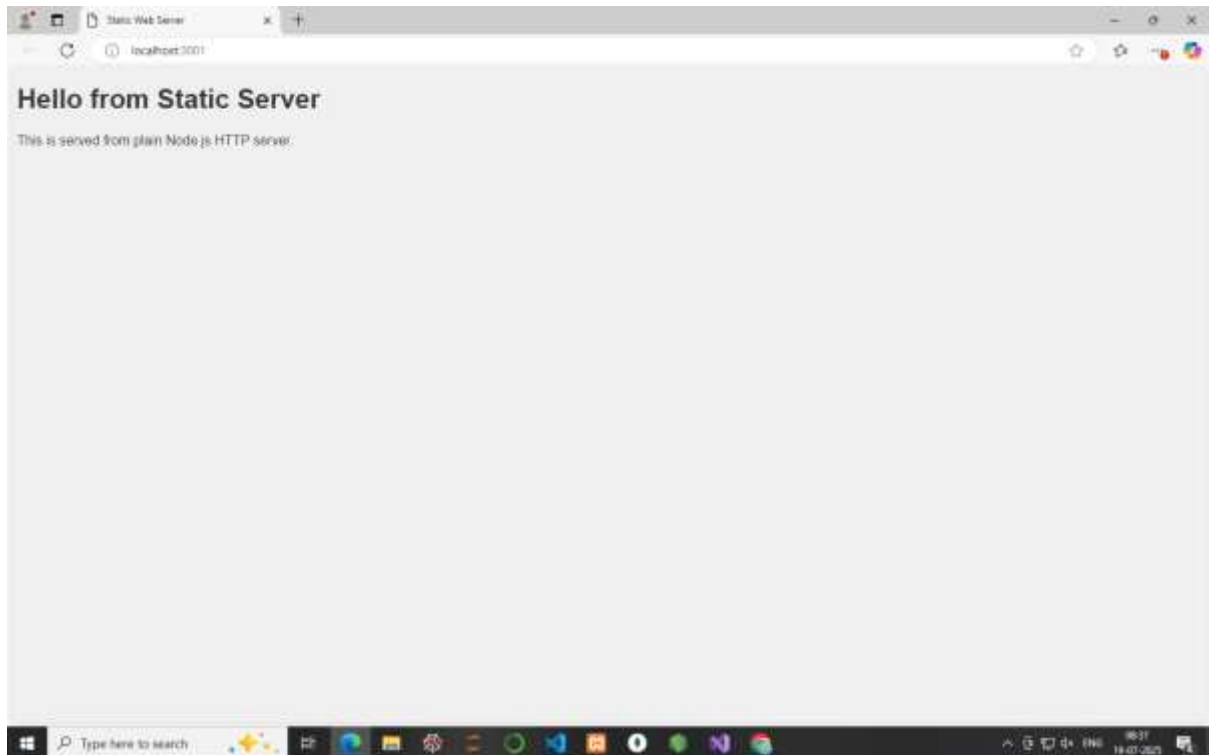
**Roll no : 05**

## **Practical Assignment – 1**

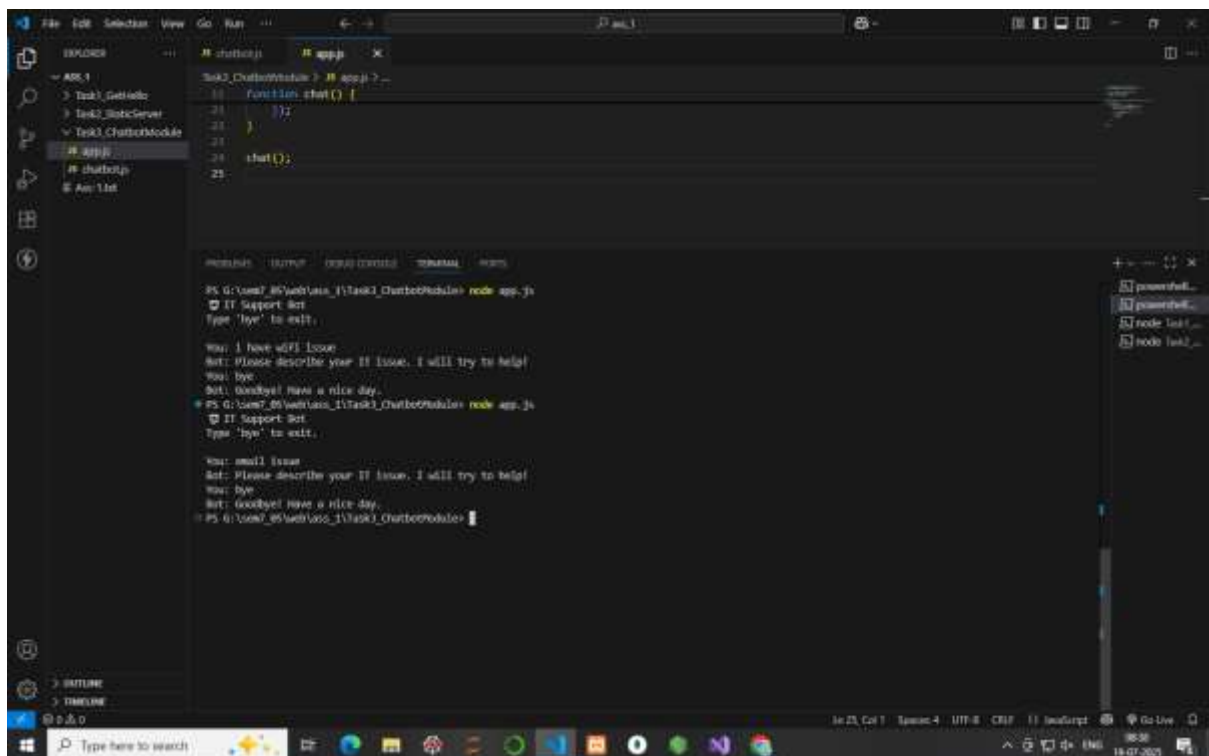
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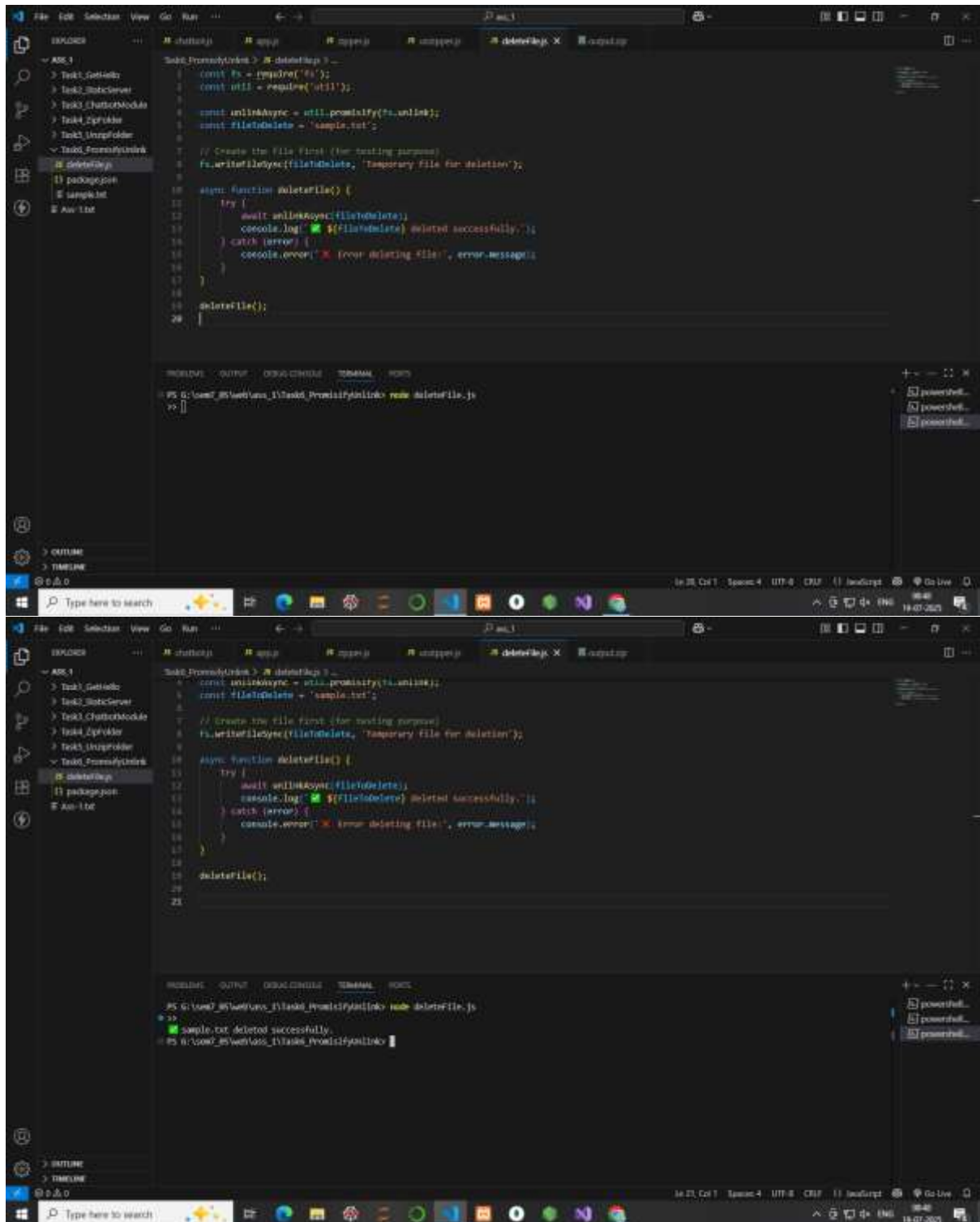


4.

The screenshot shows the VS Code editor with the file explorer on the left displaying a project structure. The main editor window shows the `zipper.js` file. The code defines a function `zipper` that takes a folder path and a file name as arguments. It uses the `archiver` library to create a zip file. The terminal output shows the command `node zipper.js` being executed, which creates a zip file named `output.zip` containing the contents of the `myfolder` directory.

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Task1_ZipFolder > zipper.js ...
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6.



7.

The screenshot shows a VS Code editor with a file named `fetchGoogle.js` open. The code is as follows:

```

1 import fetch from 'node-fetch';
2
3 async function fetchGoogle() {
4   try {
5     const response = await fetch('https://www.google.com/');
6     const html = await response.text();
7
8     console.log('Google homepage fetched.');
```

The console output shows the following message:

```

[Google homepage fetched.]
```

8.

The image displays two screenshots of a Visual Studio Code editor window, showing the development of a Node.js application. The top screenshot shows the initial setup, and the bottom screenshot shows the application running with various test commands and their outputs.

**Top Screenshot:**

- File Explorer:** Shows a project structure with folders like `task1_GetHello`, `task2_RestServer`, `task3_ChatbotModule`, `task4_ApiV1`, `task5_UsageFolder`, `task6_ForemanV1`, `task7_FetchGoogle`, and `task8_ScriptInPackage`. The `task8_ScriptInPackage` folder is selected.
- Package.json:** The file content is as follows:

```
{
  "name": "task8_scriptInPackage",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "start-server": "node server.js",
    "test": "echo \"Running test script...\"",
    "say-hello": "echo-hello-hoax!",
    "show-date": "node -e \"console.log(new Date())\"",
    "greet": "node -e \"console.log('welcome to task 8!')\"",
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}
```
- Terminal:** Shows the command `npm run start-server` being executed, resulting in the output: `Server running at http://localhost:4000` and `Terminate batch job (Y/N)`.

**Bottom Screenshot:**

- Terminal:** Shows the command `npm test` being executed, resulting in the output: `Running test script...`. The command `npm run say-hello` is also shown, resulting in the output: `hello Hoax!`. The command `npm run show-date` is also shown, resulting in the output: `2023-07-19T02:27:50.762Z`. The command `npm run greet` is also shown, resulting in the output: `welcome to task 8!`.

9.

```

Task1_FSFunctions.js
1 const fs = require('fs');
2
3 // 1. Create a file and write to it
4 fs.writeFile('demo.txt', 'Hello from fs module!');
5 console.log('File created: demo.txt');
6
7 // 2. Read the file
8 const data = fs.readFileSync('demo.txt', 'utf-8');
9 console.log('Content:', data);
10
11 // 3. Append content
12 fs.appendFileSync('demo.txt', '\nappended line. ');
13 console.log('Appended content. ');
14
15 // 4. Rename the file
16 fs.renameSync('demo.txt', 'renamed.txt');
17 console.log('File renamed to renamed.txt');
18
19 // 5. Check if file exists
20 if (fs.existsSync('renamed.txt')) {
21   console.log('File exists: renamed.txt');
22 }
23
24 // 6. Delete the file
25 fs.unlinkSync('renamed.txt');
26 console.log('File deleted: renamed.txt');
27
28
29 % cd /usr/local/bin/task1_FSFunctions; node fsFunctions.js
30
31 File created: demo.txt
32 Content: hello from fs module!
33 Appended content.
34 File renamed to renamed.txt
35 File exists: renamed.txt
36 File deleted: renamed.txt
37 % cd /usr/local/bin/task1_FSFunctions;
  
```

10.

```

Task10_GlobalObjects.js
1 console.log('Program started');
2
3 setTimeout(() => {
4   console.log('setTimeout: This message appears after 2 seconds');
5 }, 2000);
6
7 let count = 0;
8 const interval = setInterval(() => {
9   count++;
10  console.log('setInterval count: ', count);
11  if (count === 3) {
12    clearInterval(interval);
13    console.log('Interval cleared');
14  }
15 }, 1000);
16
17 // Accessing environment info
18 console.log('Platform:', process.platform);
19 console.log('Current Directory:', process.cwd());
20 console.log('Node Version:', process.version);
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11.

The screenshot shows the Visual Studio Code interface with a project named 'task1'. The Explorer sidebar on the left displays the file structure, including a 'tasks' folder and a 'package.json' file. The main editor window shows the 'index.js' file with the following code:

```
Task1 CustomPackage > # index.js ...  
function greet(name) {  
  return `Hello, ${name}! Welcome to your custom npm package.`;  
}  
  
function bye(name) {  
  return `Goodbye, ${name}! See you soon.`;  
}  
  
module.exports = { greet, bye };
```

Below the editor, the Output window shows the terminal output of the command 'node index.js'. The output includes the license information for the 'ISC' license and the following text:

```
Is this OK? (yes) yes  
PS C:\Users\m\Documents\Task1\Task1 CustomPackage> node  
C:\Users\m\Documents\Task1\Task1 CustomPackage> node  
>> > const greet = require('./index')  
>> > greet.greet('Alice') // Should return greeting  
>>  
Welcome to Node.js v18.18.2.  
Type ".help" for more information.  
>
```

The bottom status bar indicates the file is 'index.js', the editor is in 'Source' mode, and the file encoding is 'UTF-8'.