

Assignment -1 Node.js

Q1

Welcome to My NodeJS App

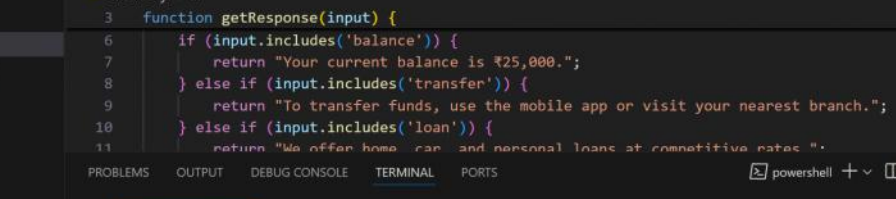
Click below to see the response from /gethello route:

[Go to /gethello](#)

Hello NodeJS!!

Q2

Q3



The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a file tree with 'Q3' as the selected folder, containing 'app.js', 'chatbot.js', and 'package.json'. The main editor area shows the content of 'chatbot.js', which defines a 'getResponse' function with conditional logic for 'balance', 'transfer', and 'loan' requests. Below the editor, the 'TERMINAL' tab is active, showing a PowerShell session where 'node app.js' was executed. The terminal output displays a welcome message and a series of user-bot interactions for balance, transfer, loan, and account opening, ending with a goodbye message.

```
EXPLORED  ...  JS chatbot.js X
```

Q3

```
JS app.js
JS chatbot.js
() package.json
```

```
3  function getResponse(input) {
6      if (input.includes('balance')) {
7          return "Your current balance is ₹25,000.";
8      } else if (input.includes('transfer')) {
9          return "To transfer funds, use the mobile app or visit your nearest branch.";
10     } else if (input.includes('loan')) {
11         return "We offer home, car, and personal loans at competitive rates.";
    }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

History restored

```
PS F:\allsubpractical\pra\q3> node app.js
Welcome to the Banking Chatbot! Type 'exit' to quit.
You: balance
Bot: Your current balance is ₹25,000.
You: transfer
Bot: To transfer funds, use the mobile app or visit your nearest branch.
You: loan
Bot: We offer home, car, and personal loans at competitive rates.
You: open account
Bot: You can open a new account online or by visiting your nearest branch.
You: exit
Bot: Thank you for using the banking assistant. Goodbye!
PS F:\allsubpractical\pra\q3>
```

Q4

The screenshot shows the Visual Studio Code interface. On the left, the 'EXPLORER' sidebar displays a file tree with 'zip-folder-app' expanded, showing 'file1.txt' and 'file2.txt'. Below it, 'my-folder.zip' is selected. The main editor area shows the content of 'file2.txt', which contains a message about opening a chat or selecting a language. At the bottom, the 'TERMINAL' panel is active, displaying a PowerShell session where the command 'node zipper.js' has been executed, resulting in the output: 'ZIP file created: F:\allsubpractical\pra\q4\my-folder.zip (22 total bytes)'.

Q5

```

JS extract-zip.js > extractZip > path
1 // extract-zip.js
2
3 const fs = require('fs');
4 const unzipper = require('unzipper');
5 const path = require('path');
6
7 function extractZip(zipFilePath, outputFolderPath) {

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS F:\allsubpractical\pra\q5> node extract-zip.js
Error during extraction: FILE_ENDED
Extraction complete to: F:\allsubpractical\pra\q5\extracted-folder
PS F:\allsubpractical\pra\q5>

```

TIMELINE

Q6

```

JS delete-file.js > deleteFile
3 const path = require('path');
4
5 // Promisify fs.unlink
6 const unlinkAsync = util.promisify(fs.unlink);
7
8 // Async function to delete a file
9 async function deleteFile(filePath) {

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS F:\allsubpractical\pra\q6> node delete-file.js
File deleted: F:\allsubpractical\pra\q6\test.txt
PS F:\allsubpractical\pra\q6>

```

TIMELINE

Q7

Q8

```

1 Open chat (Ctrl+I), or select a language (Ctrl+K M), or fill with template to get started.
   Start typing to dismiss or don't show this again.

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

Server started...
PS F:\allsubpractical\pra\q8> npm run test

> my-node-app@1.0.0 test
> echo "Running tests..." && exit 0

"Running tests..."
PS F:\allsubpractical\pra\q8> npm run greet

> my-node-app@1.0.0 greet
> node greet.js

Hello, welcome to our app!
PS F:\allsubpractical\pra\q8> npm run zip
npm error Missing script: "zip"

```

TIMELINE

Q9

The screenshot shows a VS Code editor with a file named `fs-demo.js` in the Explorer. The file contains the following JavaScript code:

```
45 // 0. Delete the file
46 fs.unlink(newFilePath, (err) => {
47   if (err) return console.error(' Error deleting file:', err.#
48   console.log(' File deleted:', newFilePath);
49 });
50 });
51 });
52 });
```

The terminal output shows the execution of `node fs-demo.js` and the resulting file operations:

```
PS F:\allsubpractical\pra\q9> node fs-demo.js
Folder created: F:\allsubpractical\pra\q9\demo
File written: F:\allsubpractical\pra\q9\demo\sample.txt
Data appended to file.
File content:
Hello, this is a demo file.
This text is appended.

File Stats: Stats {
  dev: 0,
  mode: 33206,
  nlink: 1,
```

Q10

The screenshot shows a VS Code editor with a file named `globaldemo.js` in the Explorer. The file contains the following JavaScript code:

```
35 // 0. Delete the file
36 fs.unlink(newFilePath, (err) => {
37   if (err) return console.error(' Error deleting file:', err.#
38   console.log(' File deleted:', newFilePath);
39 });
40 });
41 });
42 });
```

The terminal output shows the execution of `node globaldemo.js` and the resulting file operations:

```
Using Node.js Global Objects
__dirname: F:\allsubpractical\pra\q10
__filename: F:\allsubpractical\pra\q10\globaldemo.js
Global Variable: Node Global Demo
process.platform: win32
process.version: v22.16.0
process.pid: 20516
setInterval: 1
setTimeout: This runs after 2 seconds
setInterval: 2
setInterval: 3
Interval cleared after 3 counts
PS F:\allsubpractical\pra\q10>
```

Q11