

Name : Pansuriya Jay L

Roll No : 70

Div : A

Sem : 7th B.sc-IT

Subject : Full Stack Development (701)

Practical Assignment : 1

Q1.

The screenshot shows a web browser window with the title "Node.js AJAX Example". The page content includes a heading "Node.js AJAX Call", a paragraph "Click the button below to fetch a message from the Node.js server.", a button labeled "Fetch Hello Message", and the text "Hello NodeJS!!". Below the page content, the browser's developer tools are open to the "Network" tab. The network panel shows a list of requests, with the first request selected: "localhost:3000/gethello". The "Headers" sub-tab is active, displaying the following details:

- General:**
 - Request URL: http://localhost:3000/gethello
 - Request Method: GET
 - Status Code: 304 Not Modified
 - Remote Address: [::1]:3000
 - Referrer Policy: strict-origin-when-cross-origin
- Response Headers:**
 - Connection: keep-alive
 - Date: Sat, 19 Jul 2025 03:19:36 GMT
 - Etag: W/"e-06Zx9q+hUe0yQdApH7vRZf7l+M"
 - Keep-Alive: timeout=5
 - X-Powered-By: Express

The status bar at the bottom indicates "2 requests 442 B transferred 1.5 k".

Q2.

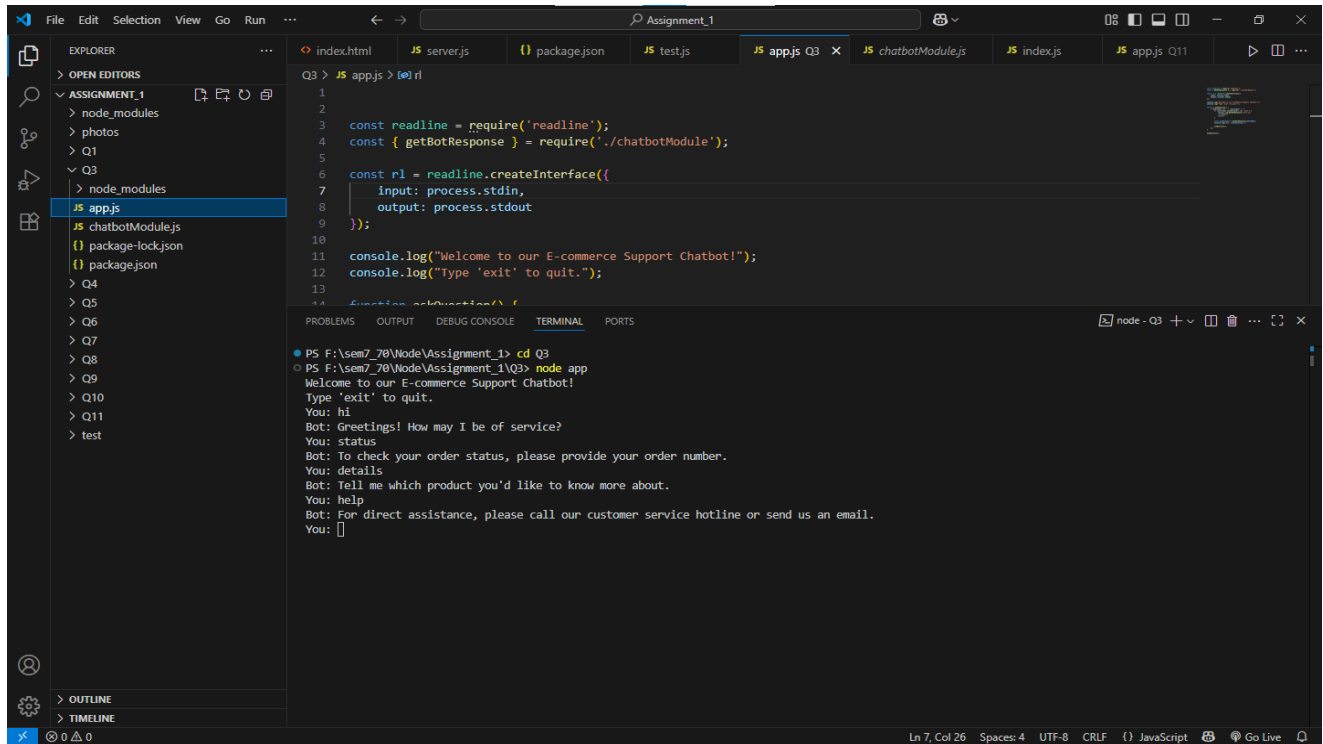
The screenshot shows a web browser window with two tabs. The active tab is titled '@jay-pansuriya/matrix.js - npm'. The address bar shows 'localhost:3000/contactus.html'. The page content is a simple white box with the text 'contact us' in bold black font.

Below the page content is the Chrome DevTools interface. The 'Network' tab is selected, showing a timeline of network requests. A single request for 'contactus.html' is visible, with a status of 200, type of document, and a size of 531 B. The 'Load' time is 20 ms.

Name	Status	Type	Initiator	Size	Time	Fulfilled by
contactus.html	200	document	Other	531 B	2 ms	

1 requests 531 B transferred 236 B resources Finish: 2 ms DOMContentLoaded: 19 ms Load: 20 ms

Q3.

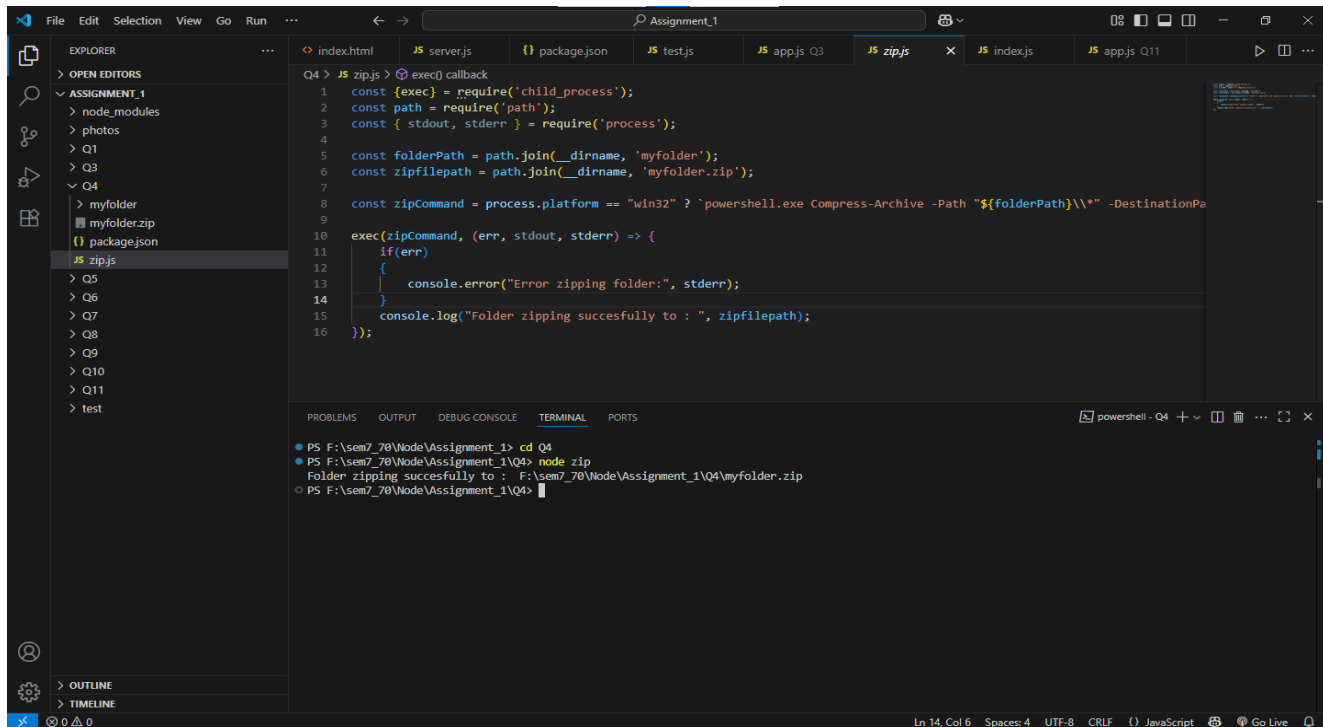


```
Q3 > JS app.js > |  
1  
2  
3 const readline = require('readline');  
4 const { getBotResponse } = require('./chatbotModule');  
5  
6 const rl = readline.createInterface({  
7   input: process.stdin,  
8   output: process.stdout  
9 });  
10  
11 console.log("Welcome to our E-commerce Support Chatbot!");  
12 console.log("Type 'exit' to quit.");  
13  
14 function askQuestion() {  
15   rl.question("What is your question? ", (answer) => {  
16     console.log("You: " + answer);  
17     const botResponse = getBotResponse(answer);  
18     console.log("Bot: " + botResponse);  
19     askQuestion();  
20   });  
21 }  
22 askQuestion();
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS F:\sem7_70\Node\Assignment_1> cd Q3  
PS F:\sem7_70\Node\Assignment_1\Q3> node app  
Welcome to our E-commerce Support Chatbot!  
Type 'exit' to quit.  
You: hi  
Bot: Greetings! How may I be of service?  
You: status  
Bot: To check your order status, please provide your order number.  
You: details  
Bot: Tell me which product you'd like to know more about.  
You: help  
Bot: For direct assistance, please call our customer service hotline or send us an email.  
You: |
```

Q4.

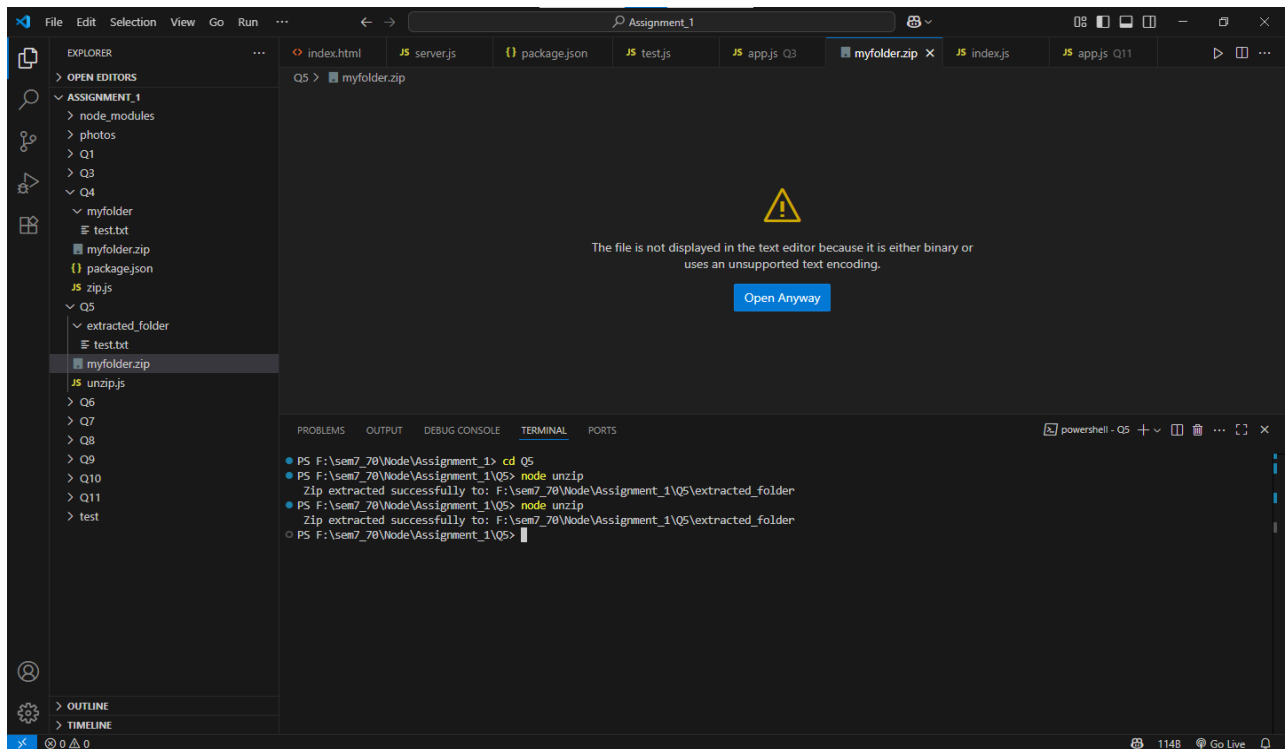


```
Q4 > JS zip.js > |  
1 const {exec} = require('child_process');  
2 const path = require('path');  
3 const { stdout, stderr } = require('process');  
4  
5 const folderPath = path.join(__dirname, 'myfolder');  
6 const zipfilePath = path.join(__dirname, 'myfolder.zip');  
7  
8 const zipCommand = process.platform == "win32" ? `powershell.exe Compress-Archive -Path "${folderPath}\\*" -DestinationPa  
9  
10 exec(zipCommand, (err, stdout, stderr) => {  
11   if(err)  
12   {  
13     console.error("Error zipping folder:", stderr);  
14   }  
15   console.log("Folder zipping succesfully to : ", zipfilePath);  
16 });
```

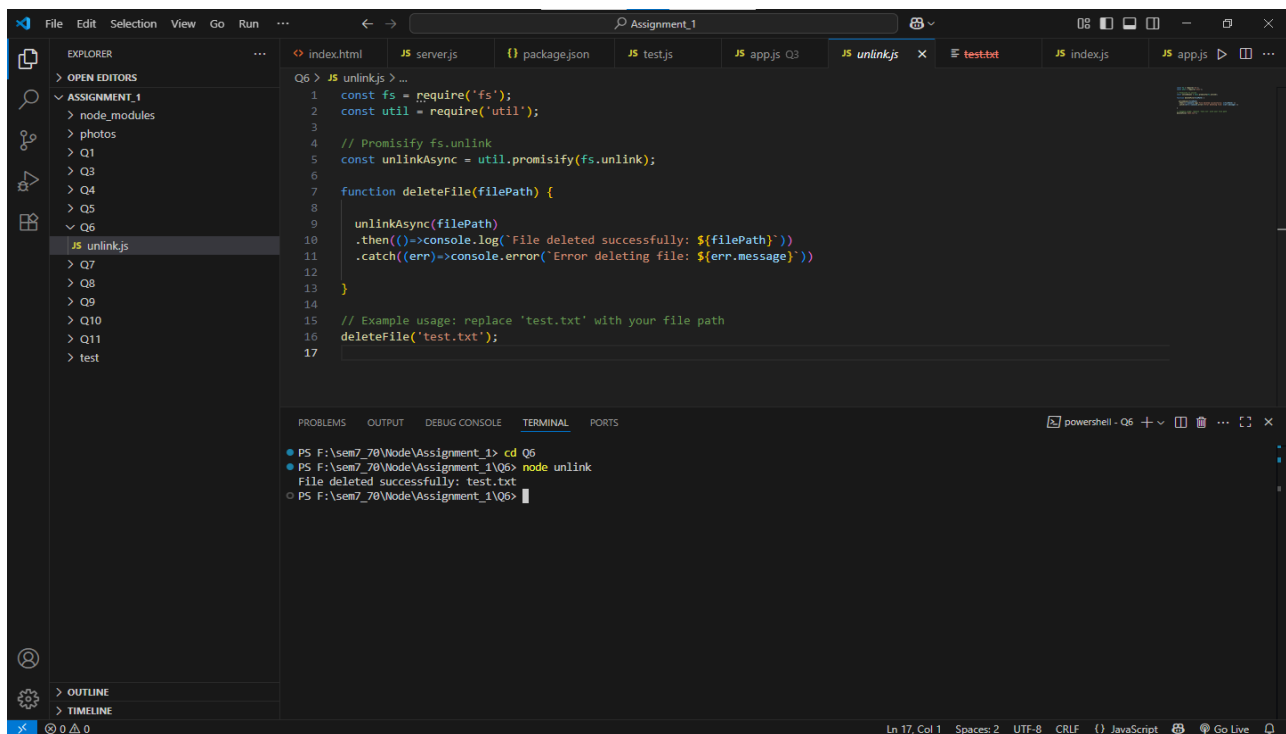
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS F:\sem7_70\Node\Assignment_1> cd Q4  
PS F:\sem7_70\Node\Assignment_1\Q4> node zip  
Folder zipping succesfully to : F:\sem7_70\Node\Assignment_1\Q4\myfolder.zip  
PS F:\sem7_70\Node\Assignment_1\Q4> |
```

Q5.



Q6.



Q7.

```
Q7 > JS fetchjs > fetchGoogle
1 const fetch = require('node-fetch');
2
3 async function fetchGoogle() {
4   try {
5     const response = await fetch('https://www.google.com');
6     if (!response.ok) {
7       throw new Error('HTTP error! status: ${response.status}');
8     }
9     const body = await response.text();
10    console.log('Fetched Google homepage HTML length:', body.length);
11
12    console.log(body);
13  } catch (error) {
14    console.error('Fetch error:', error);
15  }
16 }
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS F:\sem7_70\Node\Assignment_1\Q7>

Q8.

```
Q8 > {} package.json > {} dependencies > express
1 {
2   "name": "q8",
3   "version": "1.0.0",
4   "main": "server.js",
5   "scripts": {
6     "test": "echo \"Error: no test specified\" && exit 1",
7     "start": "node server.js",
8     "build": "echo \"build test\""
9   },
10  "keywords": [],
11  "author": "",
12  "license": "ISC",
13  "description": "",
14  "dependencies": {
15    "express": "^5.1.0"
16  }
17 }
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS F:\sem7_70\Node\Assignment_1\Q8> cd Q8
PS F:\sem7_70\Node\Assignment_1\Q8> npm run build

> q8@1.0.0 build
> echo "build test"

"build test"

PS F:\sem7_70\Node\Assignment_1\Q8> npm run test

> q8@1.0.0 test
> echo "Error: no test specified" && exit 1

"Error: no test specified"

PS F:\sem7_70\Node\Assignment_1\Q8>

Q9.

```
Q9 > JS file.js > ...
1  const fs = require('fs');
2  const path = require('path');
3
4  const filePath = path.join(__dirname, 'demo.txt');
5
6  fs.writeFile(filePath, 'Hello, Node.js!\n', (err) => {
7    if (err) return console.error('Error writing file:', err);
8    console.log(' File created and written to. ');
9
10
11  fs.appendFile(filePath, 'This is appended text.\n', (err) => {
12    if (err) return console.error('Error appending file:', err);
13    console.log(' Text appended. ');
14
15
16  fs.readFile(filePath, 'utf8', (err, data) => {
17    console.log(' File content: ', data);
18  });
19
20  fs.rename(filePath, 'renamed-demo.txt', (err) => {
21    if (err) return console.error('Error renaming file:', err);
22    console.log(' File renamed. ');
23  });
24
25  console.log(' File exists after renaming. ');
26
27  console.log(' Done. ');
28
29  process.exit(0);
30
31  }
```

```
PS F:\sem7_70\Node\Assignment_1> cd Q9
PS F:\sem7_70\Node\Assignment_1\Q9> node file
File created and written to.
Text appended.
File content:
Hello, Node.js!
This is appended text.

File renamed.
File exists after renaming.
PS F:\sem7_70\Node\Assignment_1\Q9>
```

Q10.

```
Q10 > JS globalVariable.js > ...
1
2  console.log('Current directory (__dirname):', __dirname);
3  console.log('Current file (__filename):', __filename);
4
5  global.myGlobalValue = 'Hello from the global object!';
6  console.log('Global value:', global.myGlobalValue);
7
8
9  setTimeout(() => {
10    console.log('setTimeout called after 1 second');
11  }, 1000);
12
13
14  let count = 0;
15  const intervalId = setInterval(() => {
16    count++;
17    console.log('setInterval: count = ${count}');
18    if (count === 3) {
19      clearInterval(intervalId);
20    }
21  }, 1000);
22
23  console.log('Done.');
```

```
PS F:\sem7_70\Node\Assignment_1> cd Q10
PS F:\sem7_70\Node\Assignment_1\Q10> node globalVariable
Current directory (__dirname): F:\sem7_70\Node\Assignment_1\Q10
Current file (__filename): F:\sem7_70\Node\Assignment_1\Q10\globalVariable.js
Global value: Hello from the global object!
Process PID: 15808
Platform: win32
Node version: v20.18.0
NODE_ENV: not set
setTimeout called after 1 second
setInterval: count = 1
setInterval: count = 2
setInterval: count = 3
Interval cleared
PS F:\sem7_70\Node\Assignment_1\Q10>
```

Q11.

Node.js AJAX Example

@jay-pansuriya/matrix.js - npm

+

←https://www.npmjs.com/package/@jay-pansuriya/matrix.js

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npm

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@jay-pansuriya/matrix.js

1.0.0 • Public • Published a few seconds ago

Readme

CodeBeta

0 Dependencies

0 Dependents

1 Versions

This package does not have a README. [Add a README](#) to your package so that users know how to get started.

Keywords

none

Install

> npm i @jay-pansuriya/matrix.js

Version

1.0.0

License

ISC

Unpacked Size

7.01 kB

Total Files

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