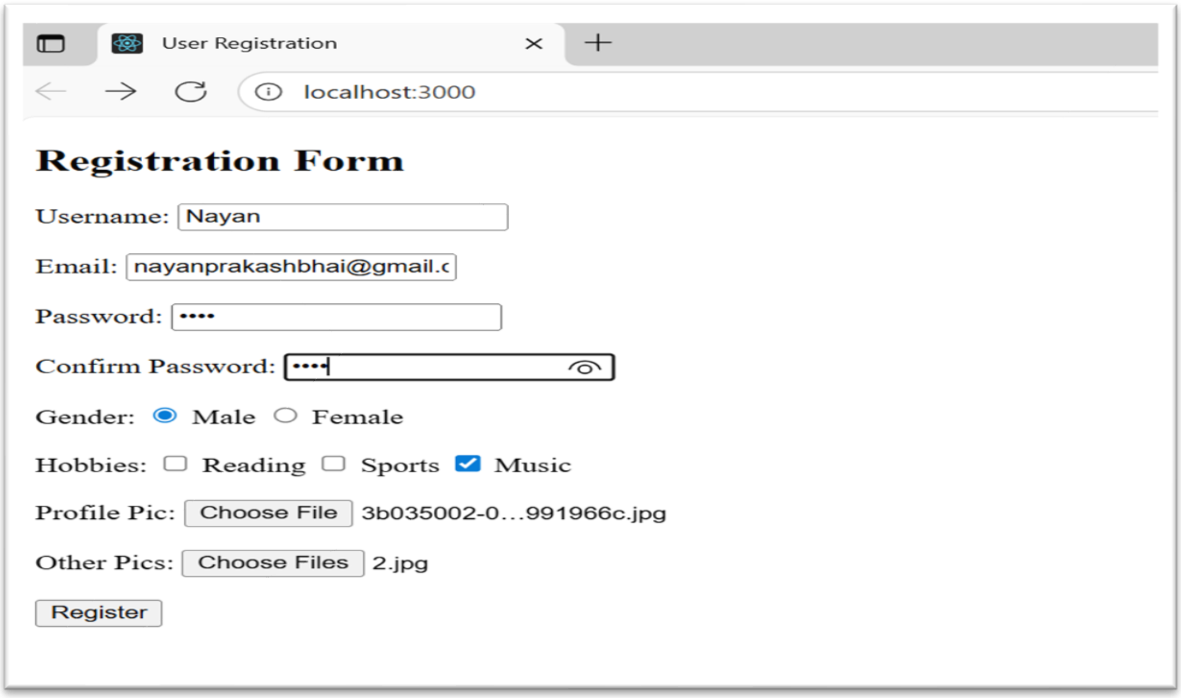
Assignment 2

1. Develop a user registration form (fields: username, password, confirm password, email, gender, hobbies, upload profile pic, upload other pics) (use text box, radio, checkboxes, file upload) using Express. Form should also contain file upload (single, multiple) with validations.

- In case of invalid data, display errors along with all previous field values.

- In case of all valid fields, display all data and images in a well formatted tabular form. and allow the user to download that file using Express. Develop route for file download. (Use express, ejs, express-validator)

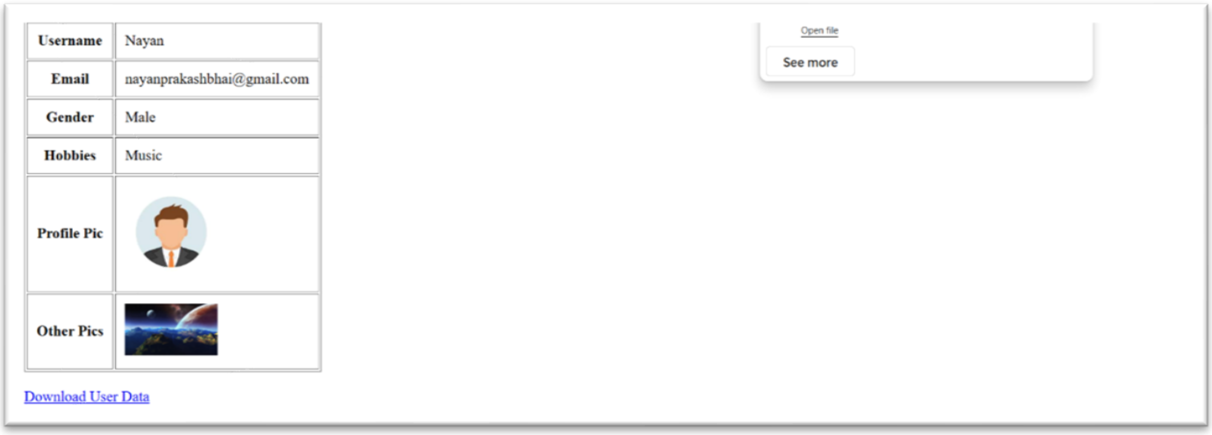
Output :-



Registration Form

Username:	Nayan
Email:	nayanprakashbhai@gmail.c
Password:	••••
Confirm Password:	••••
Gender:	[✓ Male] Female
Hobbies:	Reading Sports [✓ Music]
Profile Pic:	Choose File 3b035002-0…991966c.jpg
Other Pics:	Choose Files 2.jpg

Register

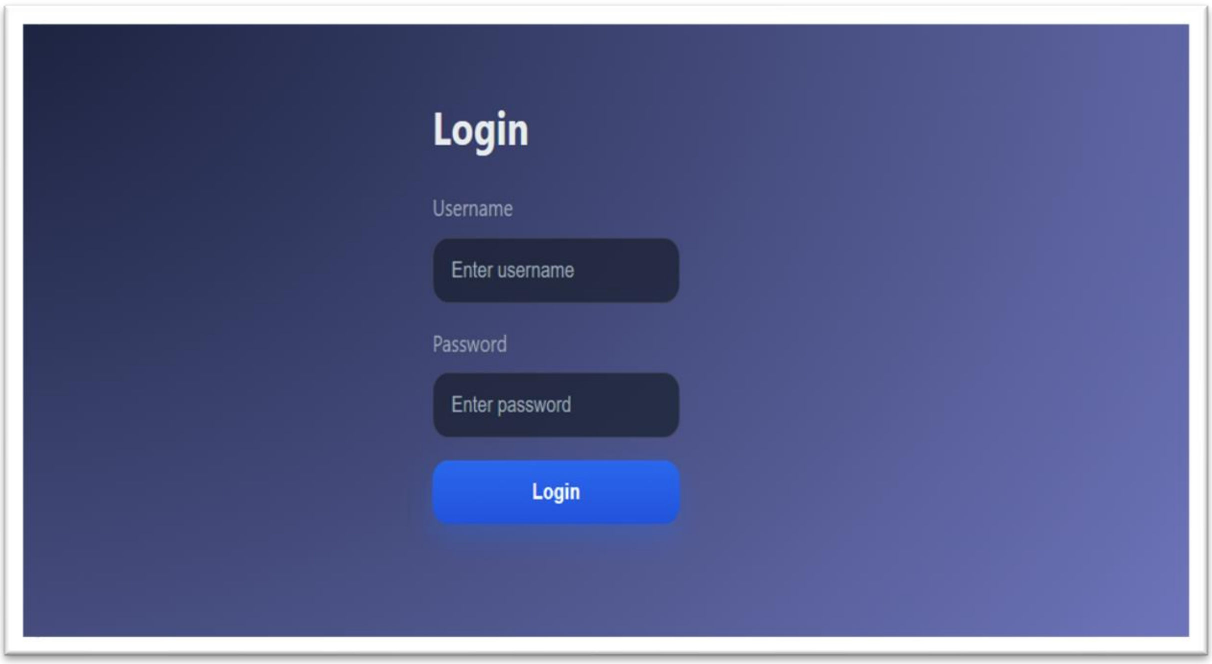


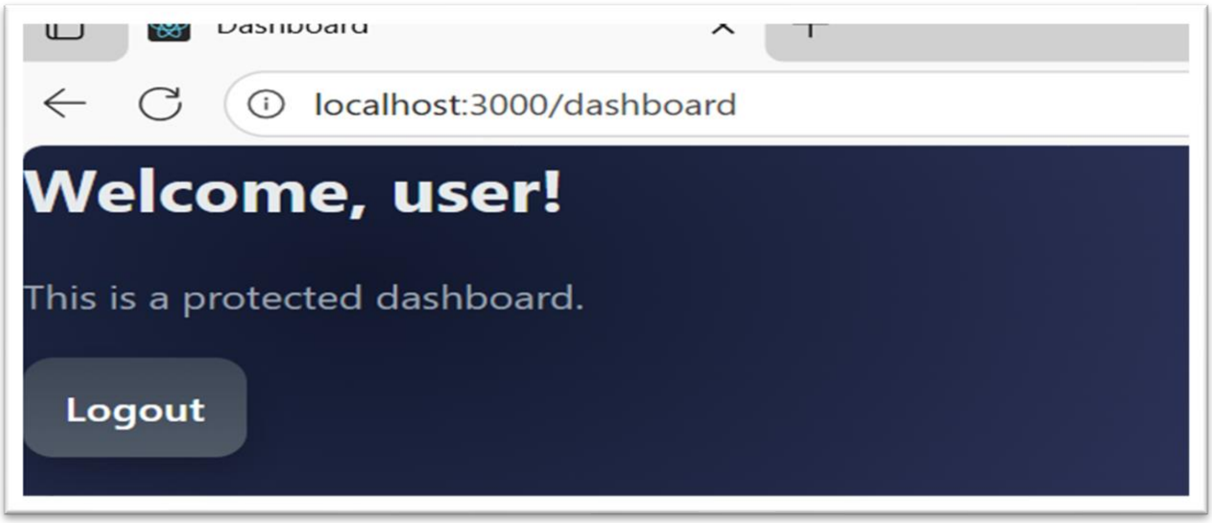
Username	Nayan
Email	nayanprakashbhai@gmail.com
Gender	Male
Hobbies	Music
Profile Pic	
Other Pics	

Download User Data

2. Express Login application with file session store.

Output :-



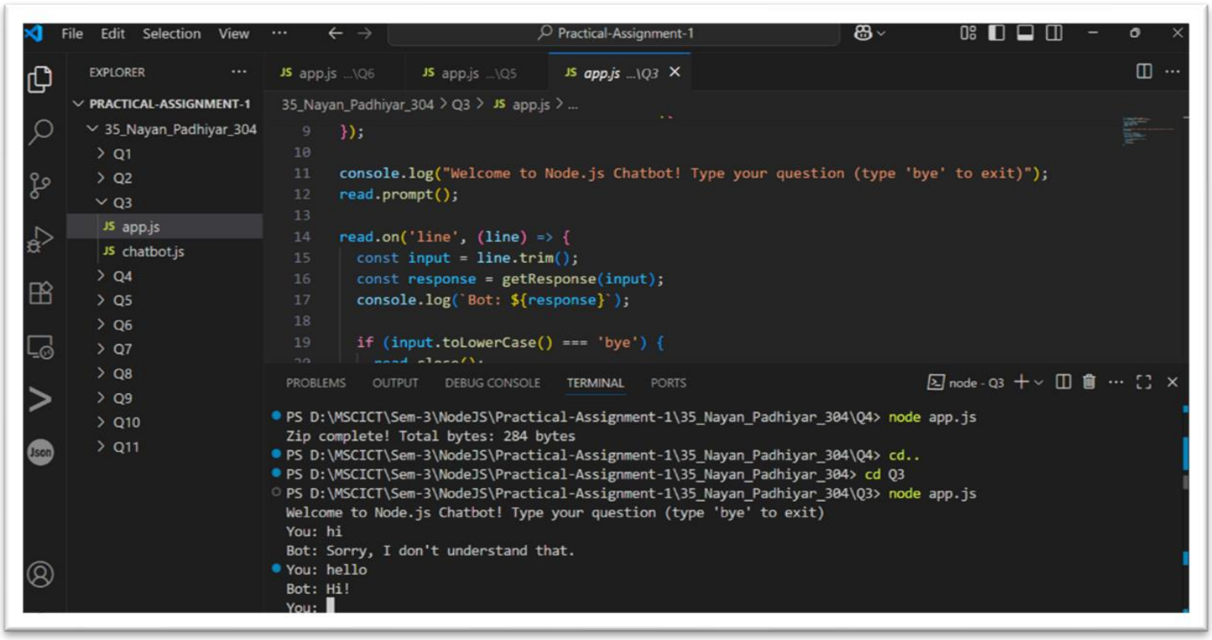


Welcome, user!

This is a protected dashboard.

33) Express Login application with redis session store.

Output :-

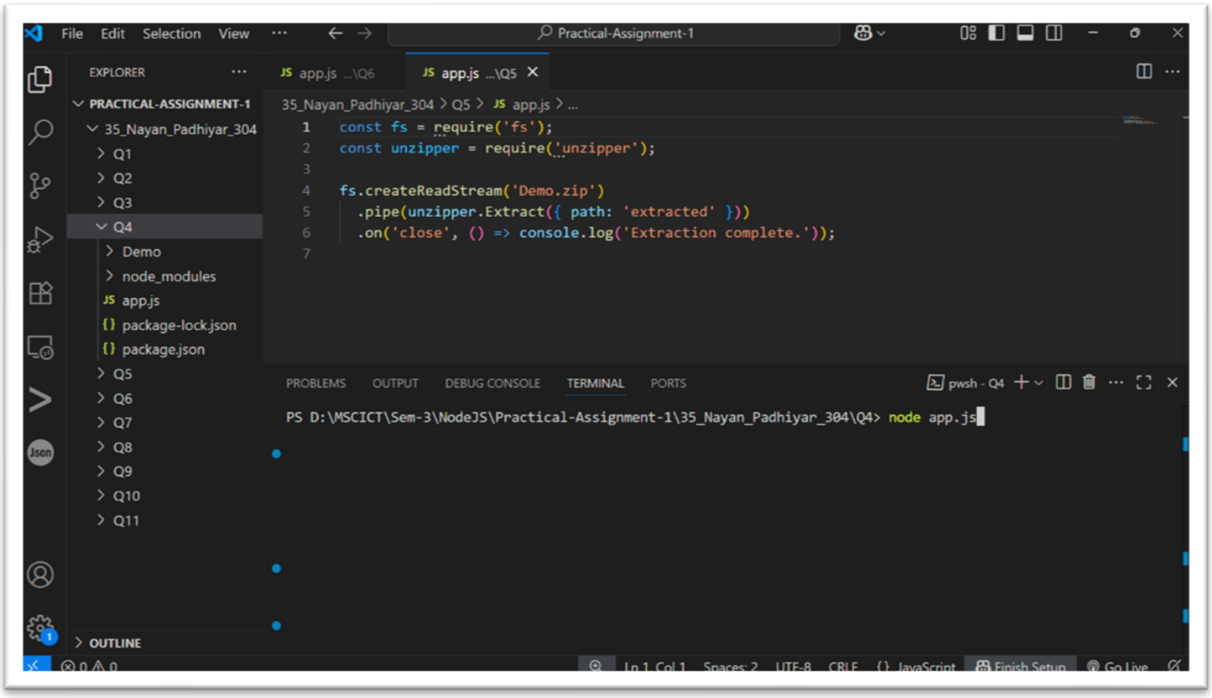


```
});

console.log("Welcome to Node.js Chatbot! Type your question (type 'bye' to exit)");
read.prompt();

read.on('line', (line) => {
  const input = line.trim();
  const response = getResponse(input);
  console.log(`Bot: ${response}`);

  if (input.toLowerCase() === 'bye') {
```

```
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q4> node app.js
Zip complete! Total bytes: 284 bytes
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q4> cd..
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304> cd Q3
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q3> node app.js
Welcome to Node.js Chatbot! Type your question (type 'bye' to exit)
You: hi
Bot: Sorry, I don't understand that.
You: hello
Bot: Hi!
You:
```

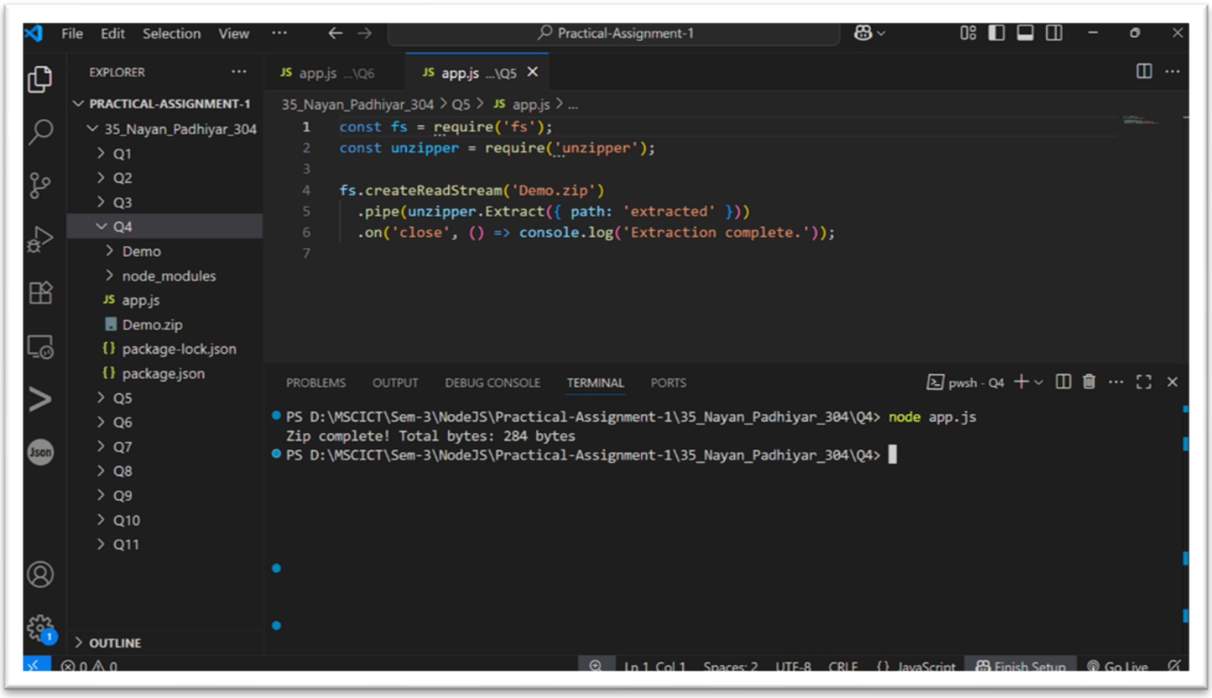
4. Write a program to create a compressed zip file for a folder.

Output :-



```
const fs = require('fs');
const unzipper = require('unzipper');

fs.createReadStream('Demo.zip')
  .pipe(unzipper.Extract({ path: 'extracted' }))
  .on('close', () => console.log('Extraction complete.'));
```

```
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q4> node app.js
```

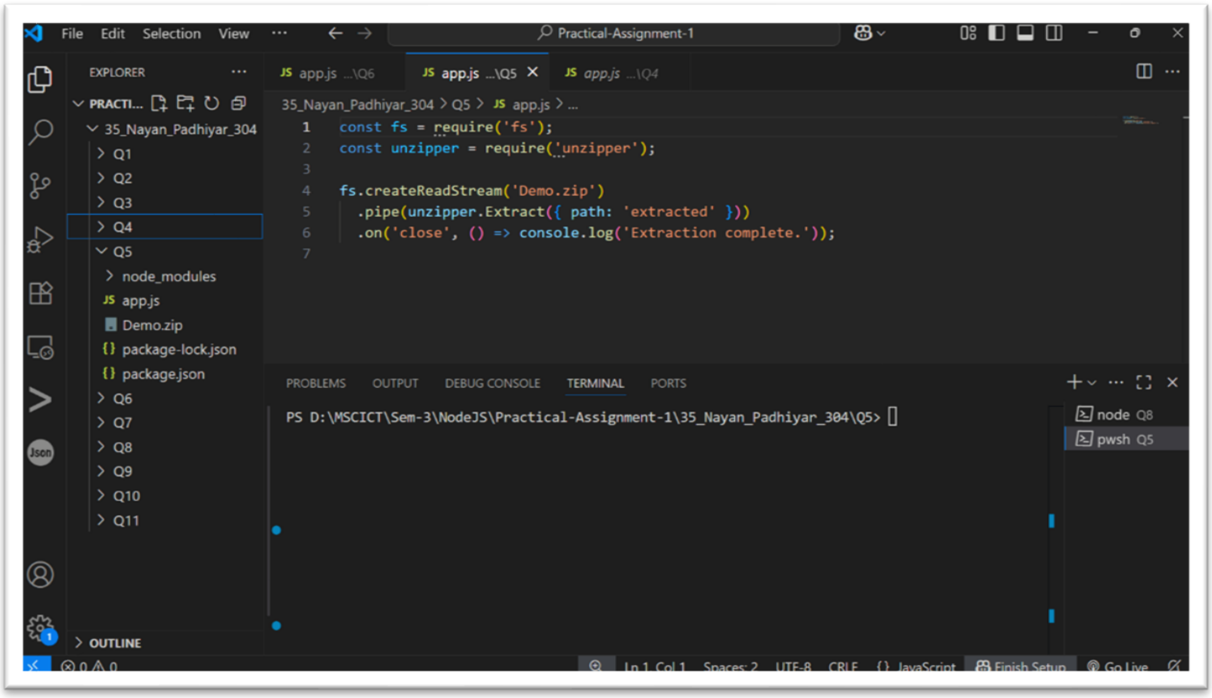


```
const fs = require('fs');
const unzipper = require('unzipper');

fs.createReadStream('Demo.zip')
  .pipe(unzipper.Extract({ path: 'extracted' }))
  .on('close', () => console.log('Extraction complete.'));
```

```
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q4> node app.js
Zip complete! Total bytes: 284 bytes
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q4>
```

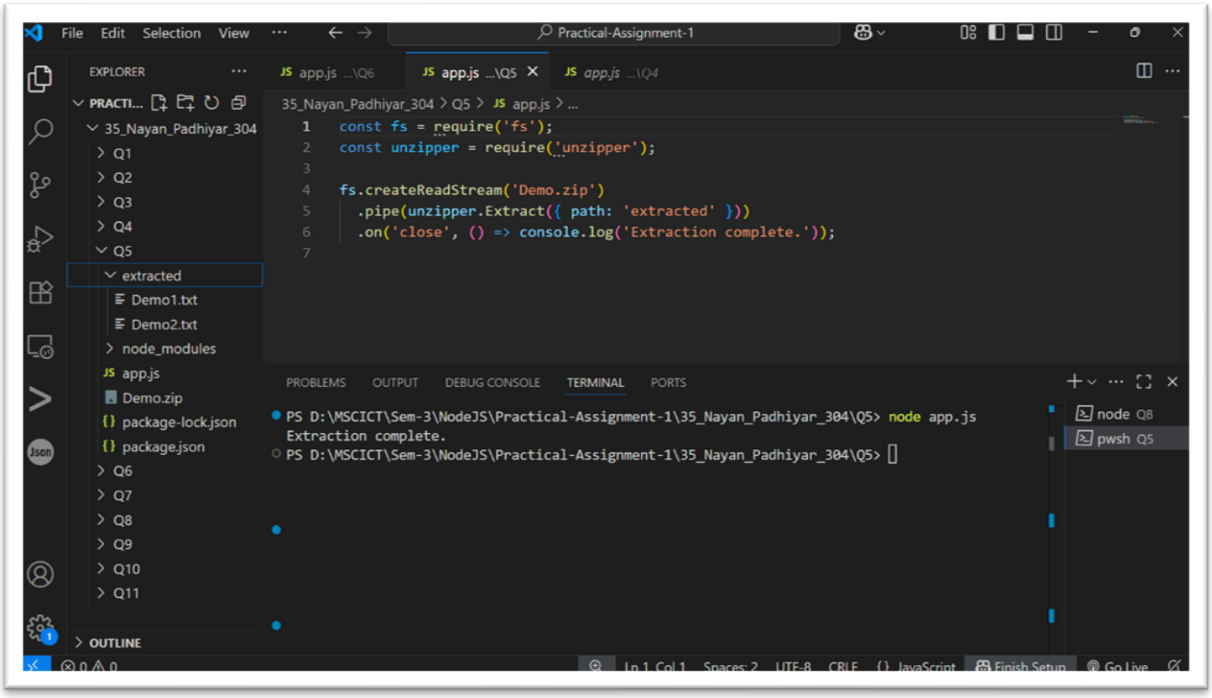
5. Write a program to extract a zip file.

Output :-



```
const fs = require('fs');
const unzipper = require('unzipper');

fs.createReadStream('Demo.zip')
  .pipe(unzipper.Extract({ path: 'extracted' }))
  .on('close', () => console.log('Extraction complete.'));
```

```
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q5>
```

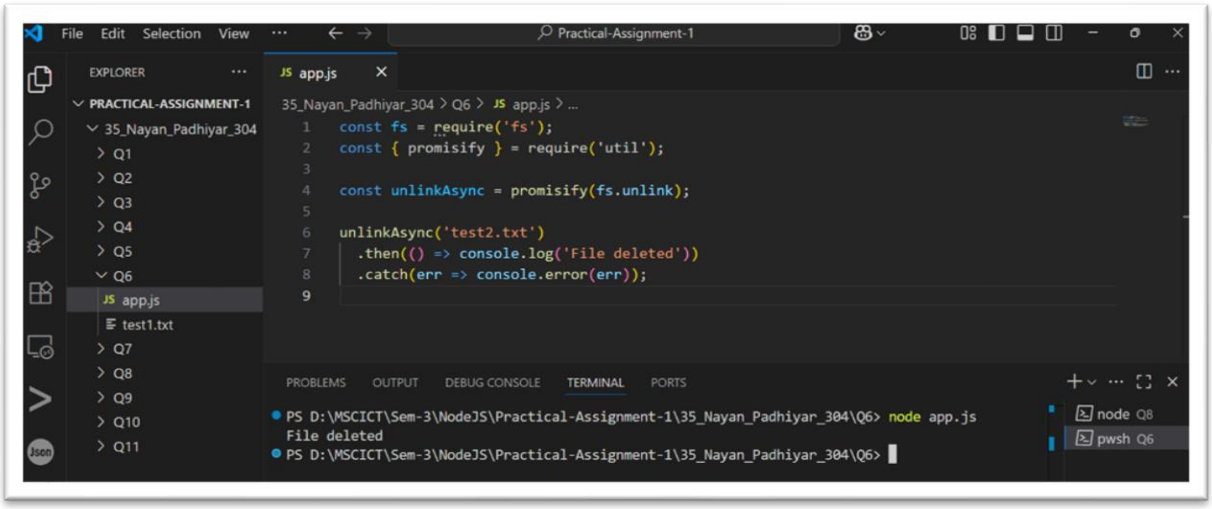


```
const fs = require('fs');
const unzipper = require('unzipper');

fs.createReadStream('Demo.zip')
  .pipe(unzipper.Extract({ path: 'extracted' }))
  .on('close', () => console.log('Extraction complete.'));
```

```
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q5> node app.js
Extraction complete.
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q5>
```

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

Output :-

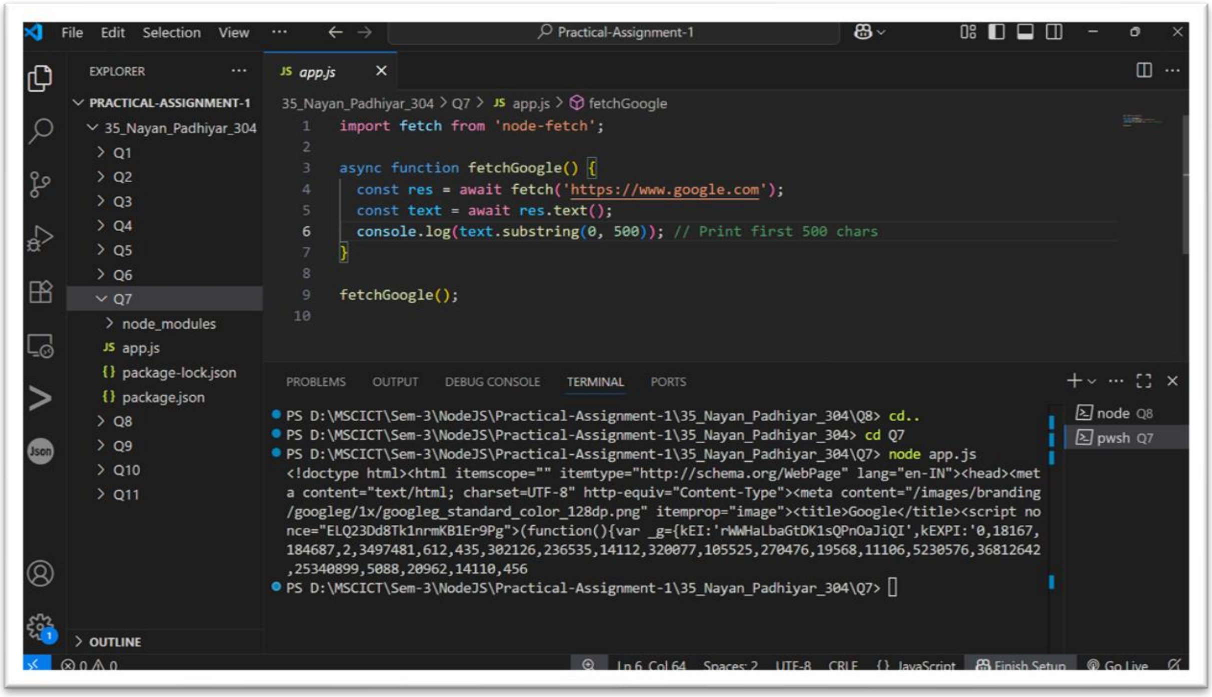


```
const fs = require('fs');
const { promisify } = require('util');

const unlinkAsync = promisify(fs.unlink);

unlinkAsync('test2.txt')
  .then(() => console.log('File deleted'))
  .catch(err => console.error(err));
```

```
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q6> node app.js
File deleted
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q6>
```

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

Output :-



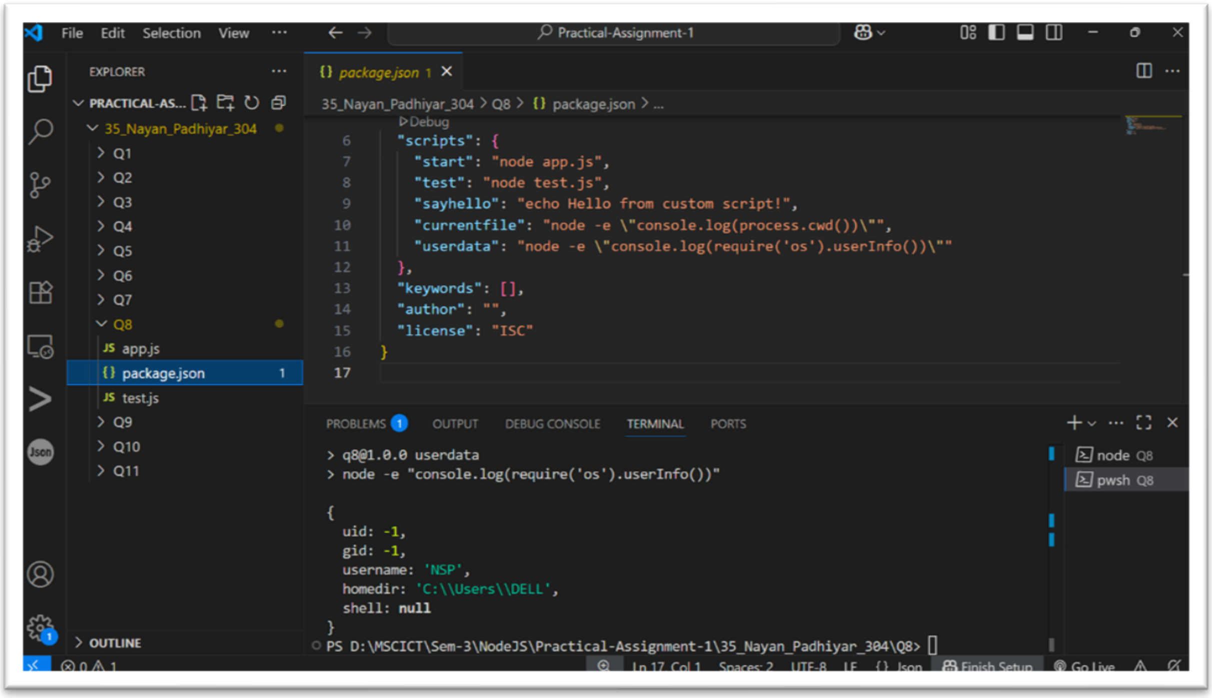
```javascript
import fetch from 'node-fetch';

async function fetchGoogle() {
  const res = await fetch('https://www.google.com');
  const text = await res.text();
  console.log(text.substring(0, 500)); // Print first 500 chars
}

fetchGoogle();
```

```
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q8> cd..
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304> cd Q7
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q7> node app.js
<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN"><head><met
a content="text/html; charset=UTF-8" http-equiv="Content-Type"><meta content="/images/branding
/googleg/1x/googleg_standard_color_128dp.png" itemprop="image"><title>Google</title><script no
nce="ELQ23Dd8Tk1nrmKB1Er9Pg">(function(){var _g={kEI:'rWWHaLbaGtDK1sQPnOaJiQI',kEXPI:'0,18167,
184687,2,3497481,612,435,302126,236535,14112,320077,105525,270476,19568,11106,5230576,36812642
,25340899,5088,20962,14110,456
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q7>
```

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

application.

Output :-

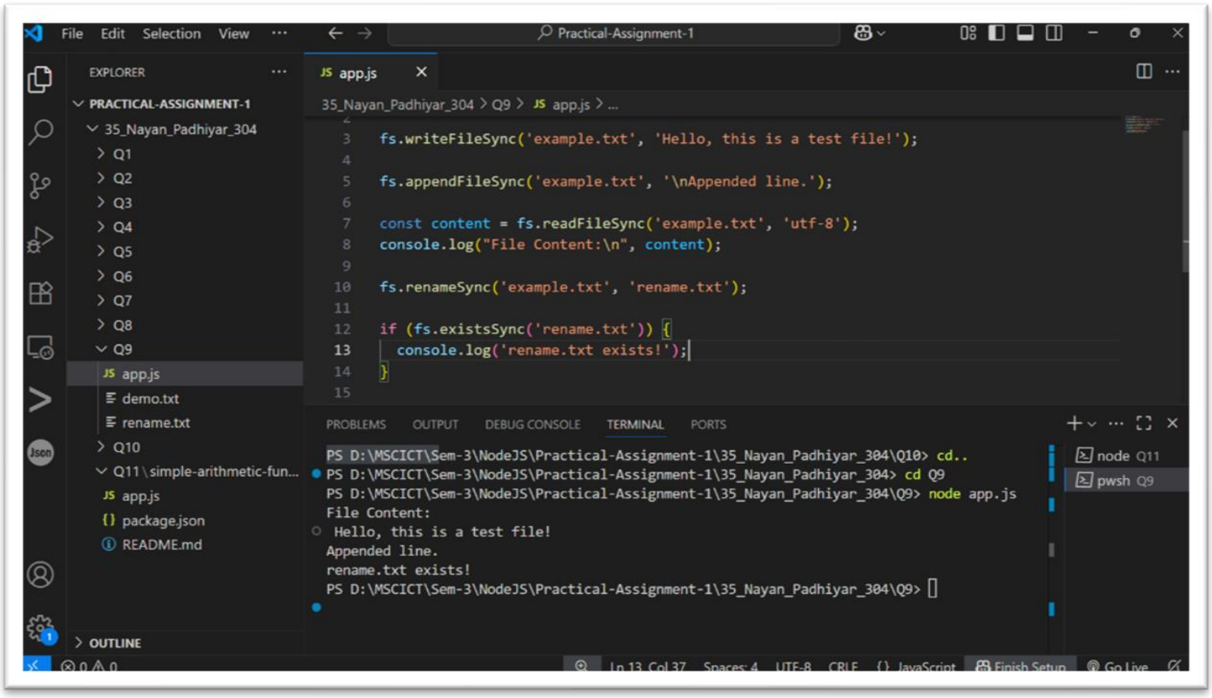


```
  "scripts": {
    "start": "node app.js",
    "test": "node test.js",
    "sayhello": "echo Hello from custom script!",
    "currentfile": "node -e \"console.log(process.cwd())\"",
    "userdata": "node -e \"console.log(require('os').userInfo())\""
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}
```

```
> q8@1.0.0 userdata
> node -e "console.log(require('os').userInfo())"

{
  uid: -1,
  gid: -1,
  username: 'NSP',
  homedir: 'C:\\Users\\DELL',
  shell: null
}
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q8>
```

9. A program which calls useful functions in fs modile.

Output :-

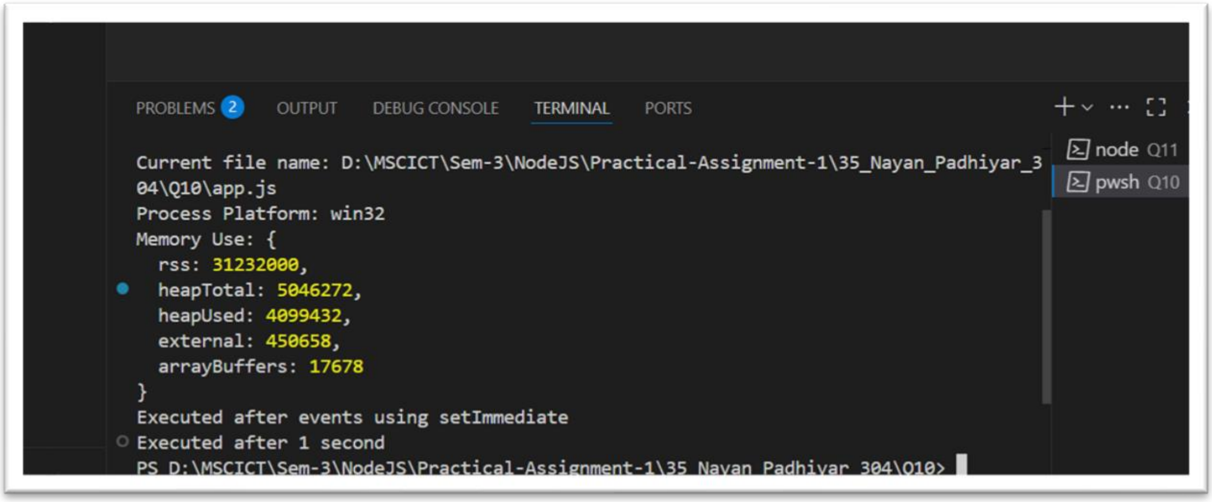


```
fs.writeFileSync('example.txt', 'Hello, this is a test file!');

fs.appendFileSync('example.txt', '\nAppended line.');

const content = fs.readFileSync('example.txt', 'utf-8');
console.log("File Content:\n", content);

fs.renameSync('example.txt', 'rename.txt');

if (fs.existsSync('rename.txt')) {
  console.log('rename.txt exists!');
}
```

```
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q10> cd..
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304> cd Q9
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q9> node app.js
File Content:
 Hello, this is a test file!
Appended line.
rename.txt exists!
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q9>
```

10. A program which uses global objects in nodejs.

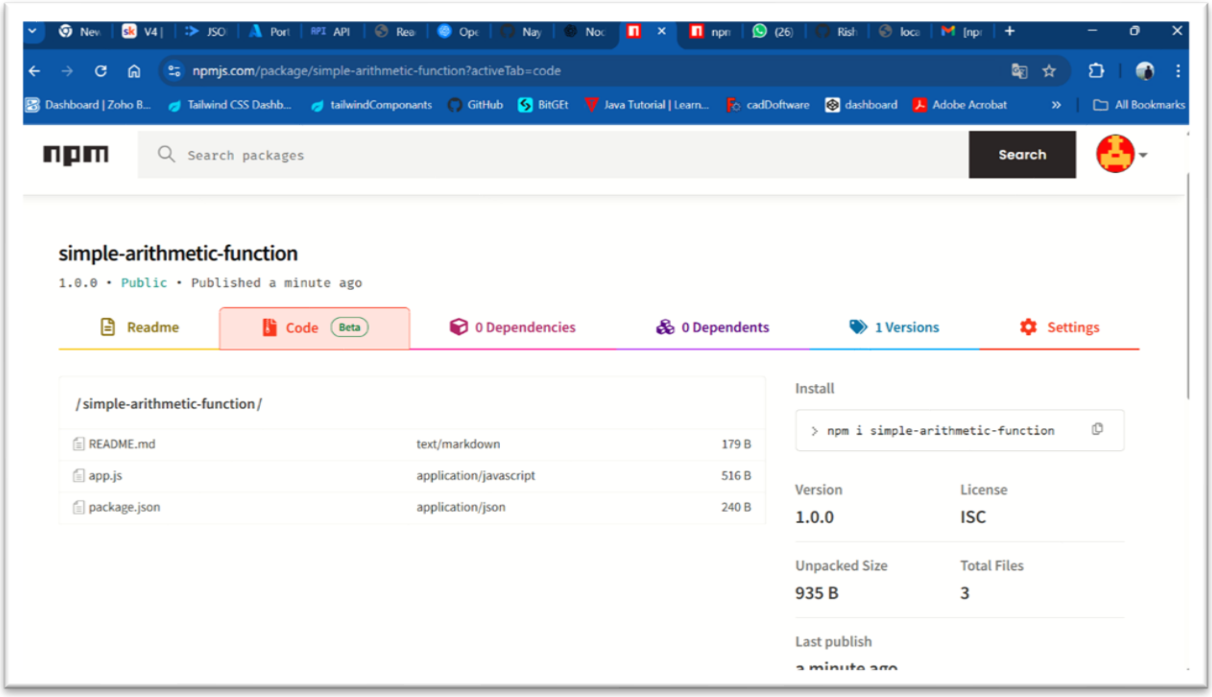
Output :-



```
Current file name: D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_3
04\Q10\app.js
Process Platform: win32
Memory Use: {
  rss: 31232000,
  heapTotal: 5046272,
  heapUsed: 4099432,
  external: 450658,
  arrayBuffers: 17678
}
Executed after events using setImmediate
Executed after 1 second
PS D:\MSCICT\Sem-3\NodeJS\Practical-Assignment-1\35_Nayan_Padhiyar_304\Q10>
```

11. Develop a useful package and publish it on npmjs.com

Output :-



simple-arithmetic-function

1.0.0 • Public • Published a minute ago

/simple-arithmetic-function/

README.md	text/markdown	179 B
app.js	application/javascript	516 B
package.json	application/json	240 B

Install

```
> npm i simple-arithmetic-function
```

Version	License
1.0.0	ISC

Unpacked Size	Total Files
935 B	3

Last publish

a minute ago

[GitHub Link:

https://github.com/Nayan8319/OSWD/tree/main/35_Nayan_Padhiyar_304_A1]