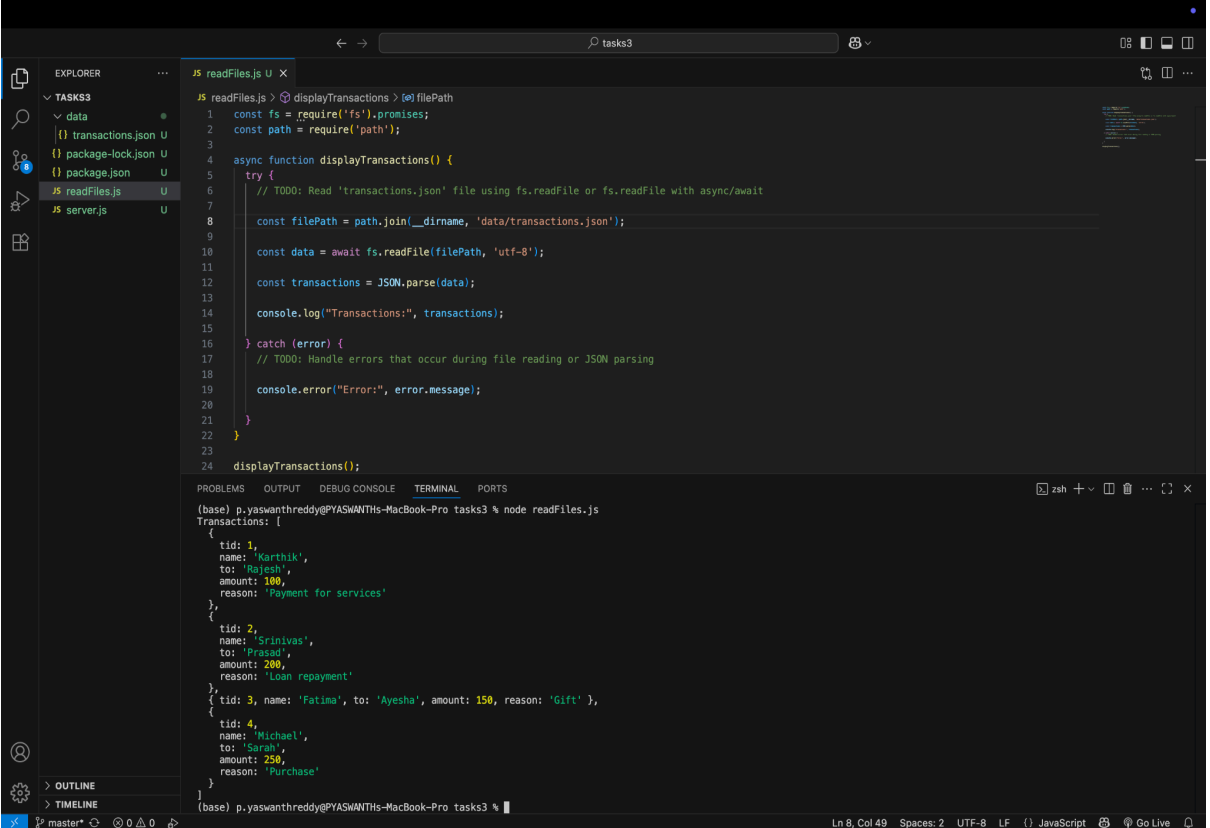


## 1. File System (fs) Module output



The screenshot shows a VS Code editor window with a project named 'tasks3'. The Explorer sidebar on the left shows the file structure: 'data' folder, 'transactions.json', 'package-lock.json', 'package.json', 'readFiles.js', and 'server.js'. The main editor area displays the content of 'readFiles.js', which is a JavaScript file using the 'fs' module to read and parse a JSON file. The code includes comments for TODOs and error handling. The bottom panel shows the 'TERMINAL' output, which displays the command 'node readFiles.js' and its output, a JSON array of transactions.

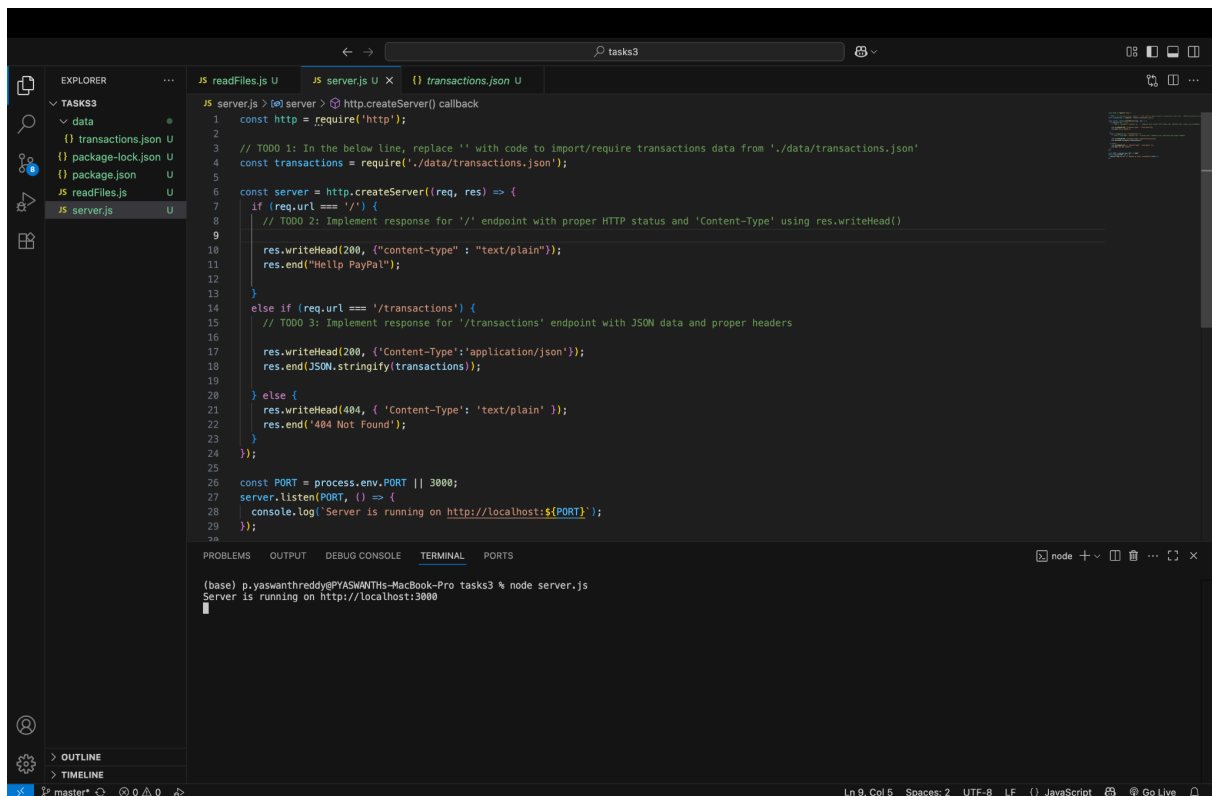
```
JS readFiles.js > displayTransactions > filePath
1  const fs = require('fs').promises;
2  const path = require('path');
3
4  async function displayTransactions() {
5    try {
6      // TODO: Read 'transactions.json' file using fs.readFile or fs.readFile with async/await
7
8      const filePath = path.join(__dirname, 'data/transactions.json');
9
10     const data = await fs.readFile(filePath, 'utf-8');
11
12     const transactions = JSON.parse(data);
13
14     console.log("Transactions:", transactions);
15
16   } catch (error) {
17     // TODO: Handle errors that occur during file reading or JSON parsing
18
19     console.error("Error:", error.message);
20   }
21 }
22
23 displayTransactions();
```

```
(base) p.yaswanthreddy@PYASWANTHS-MacBook-Pro tasks3 % node readFiles.js
Transactions: [
  {
    tid: 1,
    name: 'Karthik',
    to: 'Rajesh',
    amount: 100,
    reason: 'Payment for services'
  },
  {
    tid: 2,
    name: 'Srinivas',
    to: 'Prasad',
    amount: 200,
    reason: 'Loan repayment'
  },
  {
    tid: 3,
    name: 'Fatima',
    to: 'Ayesha',
    amount: 150,
    reason: 'Gift'
  },
  {
    tid: 4,
    name: 'Michael',
    to: 'Sarah',
    amount: 250,
    reason: 'Purchase'
  }
]
```

Github link:

<https://github.com/PathireddyYaswanthReddy/rg-assignments/blob/master/week2/Assignment%202/tasks3/readFiles.js>

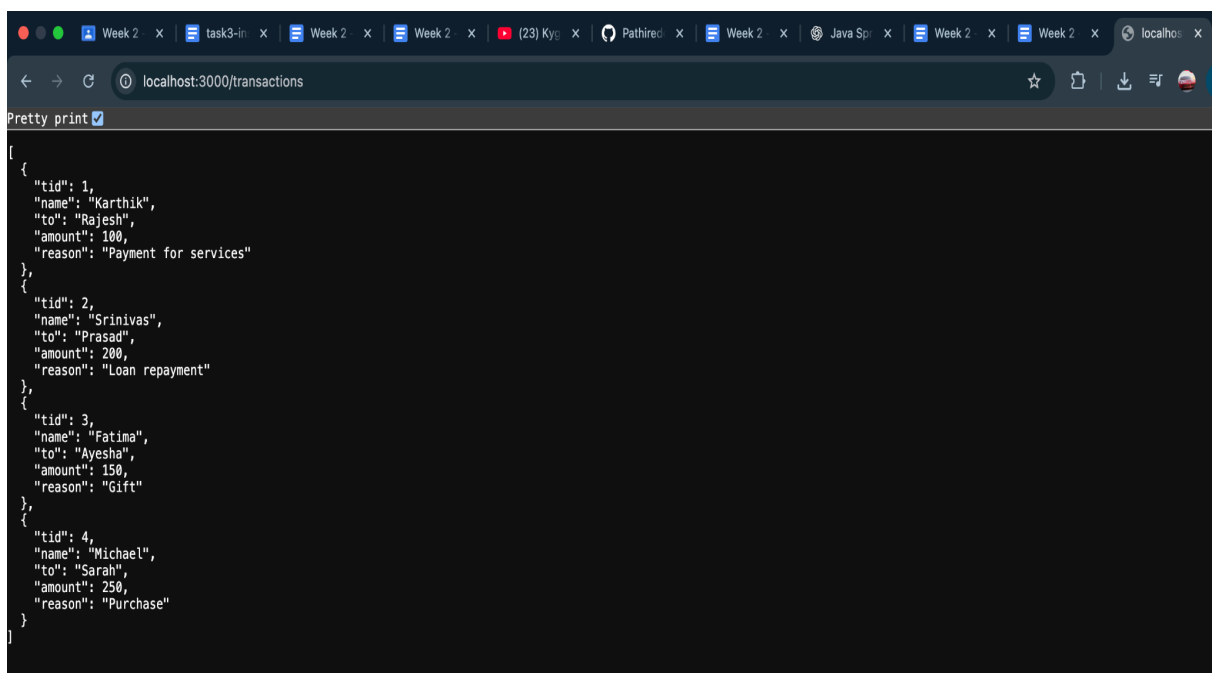
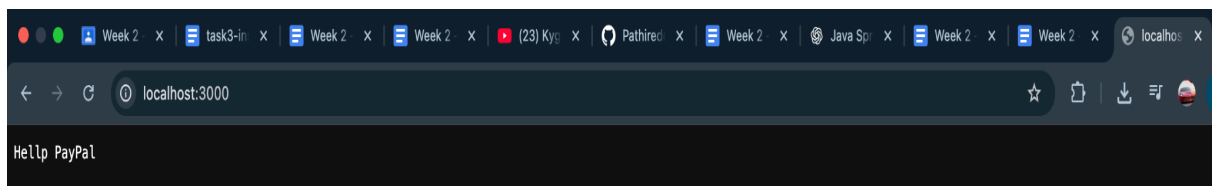
## 2. HTTP Server with Endpoints output



The screenshot shows the VS Code editor with the `server.js` file open. The file contains the following code:

```
1 const http = require('http');
2
3 // TODO 1: In the below line, replace '' with code to import/require transactions data from './data/transactions.json'
4 const transactions = require('./data/transactions.json');
5
6 const server = http.createServer((req, res) => {
7   if (req.url === '/') {
8     // TODO 2: Implement response for '/' endpoint with proper HTTP status and 'Content-Type' using res.writeHead()
9
10    res.writeHead(200, {'content-type': 'text/plain'});
11    res.end("Hello PayPal");
12  }
13  else if (req.url === '/transactions') {
14    // TODO 3: Implement response for '/transactions' endpoint with JSON data and proper headers
15
16    res.writeHead(200, {'Content-Type': 'application/json'});
17    res.end(JSON.stringify(transactions));
18  }
19  else {
20    res.writeHead(404, {'Content-Type': 'text/plain'});
21    res.end('404 Not Found');
22  }
23 });
24
25 const PORT = process.env.PORT || 3000;
26 server.listen(PORT, () => {
27   console.log(`Server is running on http://localhost:${PORT}`);
28 });
```

The terminal output shows the command `node server.js` being executed, and the server is running on `http://localhost:3000`.



Github link:

<https://github.com/PathireddyYaswanthReddy/rg-assignments/blob/master/week2/Assignment%202/tasks3/server.js>