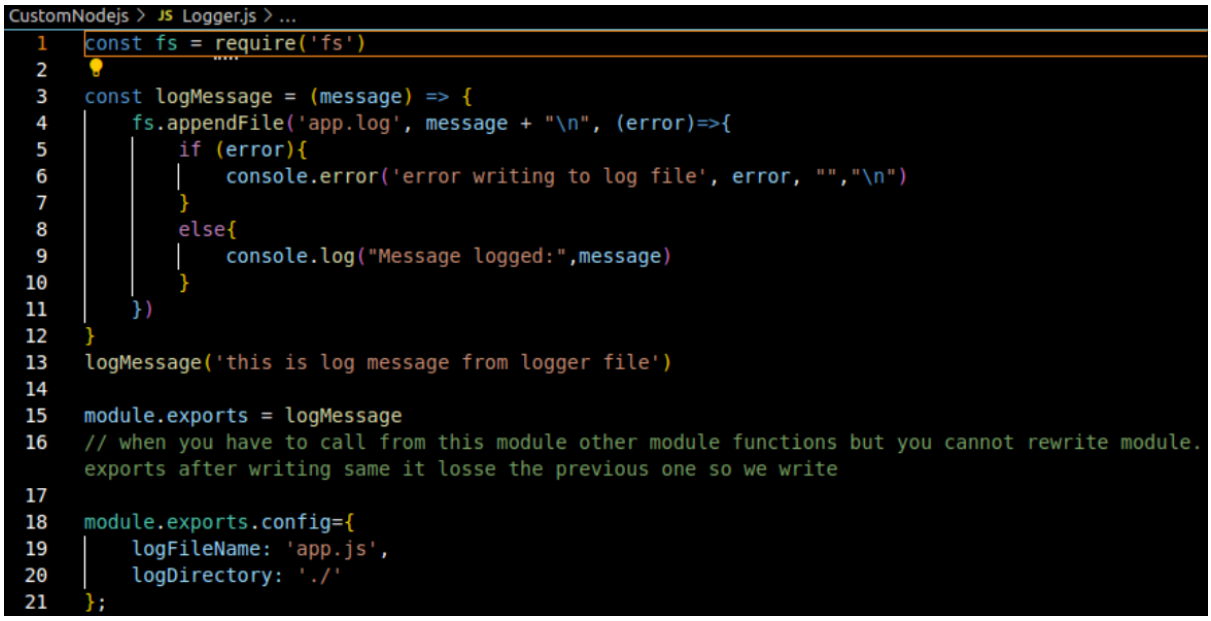
## Date: 12 June 2024 Day: Wednesday

Day 6 of the internship focused on mastering the creation and utilization of custom modules in Node.js. Custom modules are essential for modularizing code, promoting reusability, and enhancing the organization of complex applications.

## Learning Objectives:

- **Custom Module Creation:**
    - Explored the concept of custom modules in Node.js, which allows encapsulating functionality into reusable components.
    - Learned how to create custom modules using module.exports to export functions, objects, or classes from one module to another.
    - Implemented modular design principles to break down application logic into manageable and reusable components.

- **Application of Custom Modules:**
    - Applied custom modules to refactor existing code, improving code organization and maintainability.
    - Utilized custom modules to encapsulate related functionalities, promoting separation of concerns and enhancing code readability.
    - Integrated custom modules into larger applications to demonstrate their role in building scalable and modular software architectures.




## Activities and Insights:

- **Building Modular Components:**
    - Created custom modules for specific tasks such as data manipulation, utility functions, and API interactions.
    - Encapsulated related functionalities into modules, ensuring each module focused on a single responsibility for better code maintenance and reusability.

- **Exporting and Importing Modules:**
    - Experimented with different export styles to suit varying project requirements, including default exports and named exports.
    - Explored importing strategies to efficiently include external modules in Node.js applications, ensuring proper dependency management and module resolution.