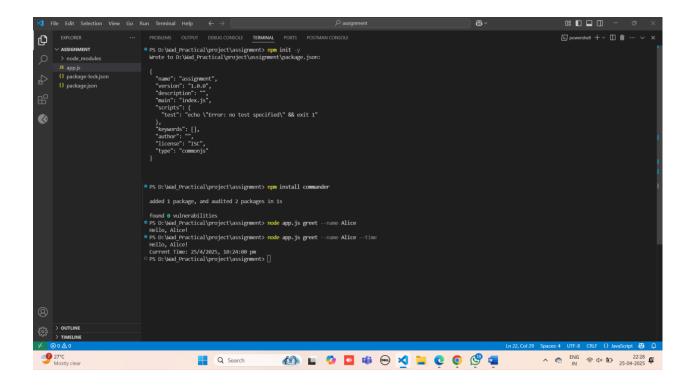
ASSIGNMENT

1) Illustrate the need of commander.js package?

The commander.js package is a popular Node.js library used to build command-line interfaces (CLI). It simplifies the process of creating commands, parsing arguments, and displaying help messages. Here's an illustration of why you need commander.js in a Node.js project:

```
Suppose you want to create a CLI tool like:
node app.js greet --name John
Manually parsing arguments (process.argv) is tedious:
-app.js
const args = process.argv.slice(2);
if (args[0] === "greet" && args[1] === "--name" && args[2]) {
 console.log('Hello, $\{\args[2]\}!');
} else {
 console.log("Usage: node app.js greet --name <name>");
Using commander.js, your code becomes clean and powerful:
npm install commander
-app.js
const { Command } = require('commander');
const program = new Command();
-program
 .command('greet')
 .description('Greet a user by name')
 .requiredOption('--name <name>', 'Name to greet')
 .action((options) => {
  console.log('Hello, ${options.name}!');
```

```
});
program.parse(process.argv);
Now you can run:
node app.js greet --name John
And you automatically get help with:
node app.js -help
2) Implement small application which will make use of mentioned package?
Code:
const { Command } = require('commander');
const program = new Command();
program
 .name('greet-cli')
 .description('Simple CLI to greet users and show time')
 .version('1.0.0');
program
 .command('greet')
 .description('Greet a user by name')
 .requiredOption('-n, --name <name>', 'Name of the user')
 .option('-t, --time', 'Show current date and time')
 .action((options) => \{
  console.log('Hello, ${options.name}!');
  if (options.time) {
   console.log(`Current Time: ${new Date().toLocaleString()}`);
  }
 });
program.parse(process.argv);
```



3) Illustrate the need for code of ethics?

A Code of Ethics is a set of principles and guidelines that help individuals or organizations distinguish right from wrong in their work or behavior.

Need a Code of Ethics

1. Guides Ethical Decision-Making

Scenario: A software developer is asked to build a feature that collects user data without their consent.

Without a Code of Ethics: They might proceed, thinking, "It's just part of the job."

With a Code of Ethics: They refer to principles like "Respect user privacy" or "Do no harm" and raise concerns.

Helps in doing what's right, not just what's asked.

2. Builds Trust and Reputation

Example: If a tech company is transparent, respects user data, and treats employees fairly, it earns public trust.

Ethics Trust Long-term Success

3. Reduces Legal and Moral Risks

Example: A business that discriminates in hiring may face legal action. A code of ethics ensures fair treatment and compliance with laws.

Prevents conflicts, scandals, and lawsuits.

4. Creates a Positive Work Culture

Scenario: A company's code emphasizes honesty, collaboration, and respect.

Result: Employees feel safe, valued, and motivated to contribute positively.

Ethics = Strong, healthy, inclusive workplace

5. Consistency in Behavior

Example: If everyone follows the same ethical code, there's less confusion or favoritism.

Everyone knows what is expected from interns to CEOs.