

Instruction to Run Week 1 lab:

How to Run Code:

Run below command for install all dependencies

```
npm install
```

Run below command for transpile code and run transpiled file

```
tsc calculator.ts
```

```
node calculator.js
```

How to Create project from scratch:

Create TypeScript File

Open Visual Studio Code.

Create a new file in your project directory and name it something like calculator.ts.

Paste the code into the calculator.ts file you created.

Open Integrated Terminal in Visual Studio Code

In Visual Studio Code, open the integrated terminal by clicking on "View" in the top menu and selecting "Terminal" from the dropdown.

The terminal will open at the bottom of the VSCode window.

Transpile TypeScript Code

In the terminal, navigate to the directory where your calculator.ts file is located. You can use the cd command to change directories.

Once you're in the directory with your TypeScript file, run the following command to transpile the TypeScript code into JavaScript:

```
tsc calculator.ts
```

This will create a calculator.js file in the same directory.

Run the JavaScript Code

In the terminal, still within the same directory, run the following command to execute the JavaScript code:

```
node calculator.js
```

This will start the calculator program.

Follow the Program's Instructions

After running the program, you'll be prompted to enter the first number, second number, and select an operation (1 for addition, 2 for subtraction, etc.). Follow the prompts and enter the required information as instructed. The program will perform the calculation and display the result.

Remember that you'll need to have Node.js installed on your machine for this to work, and you need to execute the TypeScript file (calculator.ts) to transpile it into JavaScript (calculator.js) before running it with Node.js.