**Steps to Run TypeScript Code Locally**

**1. Install Node.js**

* Download & install **Node.js** from: https://nodejs.org
* This includes npm (Node package manager).

**2. Install TypeScript Globally**

Open a terminal (Command Prompt or PowerShell on Windows) and run:

npm install -g typescript

### 5. Run with Node.js

Execute the JavaScript output:

node solution.js

Output:

scratch from automation Build

## Alternative: Run Directly with ts-node

To avoid manual compiling every time, install **ts-node**:

npm install -g ts-node

Now you can run TypeScript directly:

ts-node solution.ts

## Step 1: Setup Project

In a folder of your choice, run:

mkdir sdet-coderbyte

cd sdet-coderbyte

npm init -y

Install TypeScript, ts-node, and Jest (test runner):

npm install --save-dev typescript ts-node jest ts-jest @types/jest

Initialize TypeScript:

npx tsc --init

Configure Jest to work with TypeScript:

npx ts-jest config:init

## Step 2: Project Structure

sdet-coderbyte/

│── src/

│ ├── reverseWords.ts # your function

│ ├── validateResponse.ts # another function

│── tests/

│ ├── reverseWords.test.ts # test cases for reverseWords

│ ├── validateResponse.test.ts

│── package.json

│── tsconfig.json

│── jest.config.js

Install browser binaries:

npx playwright install

## 🛠 Step 3: Initialize Playwright Test

npx playwright test --init