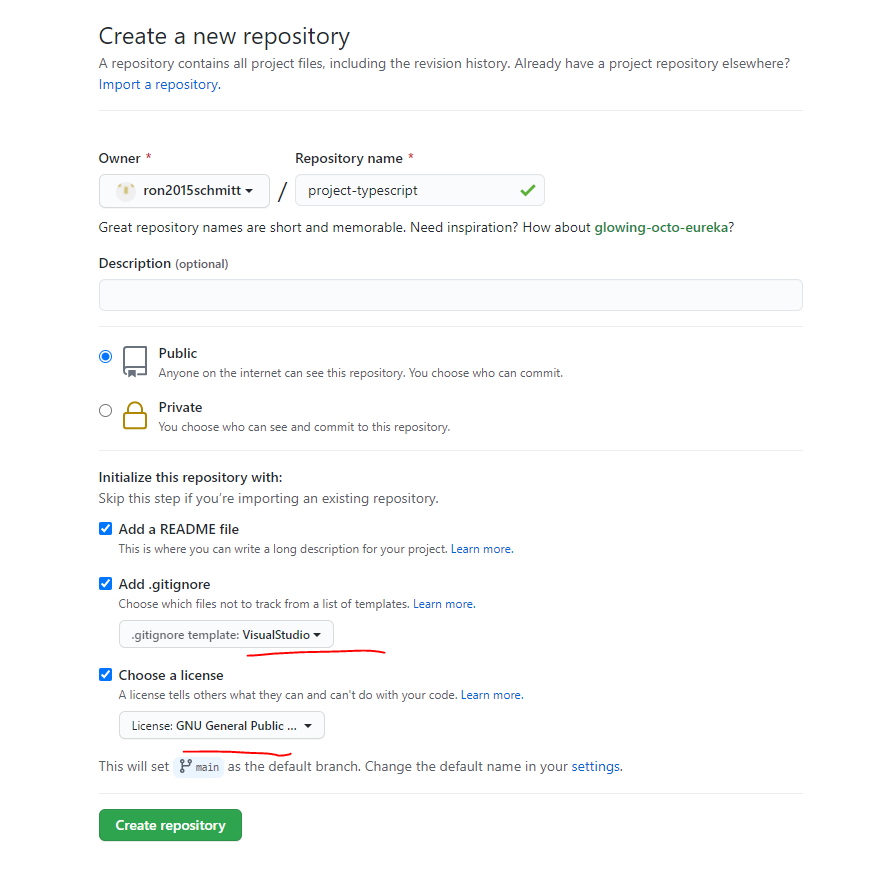
**Chap 1-3 intro**

**pre-installation**

Install git bash and Node.

Create repo



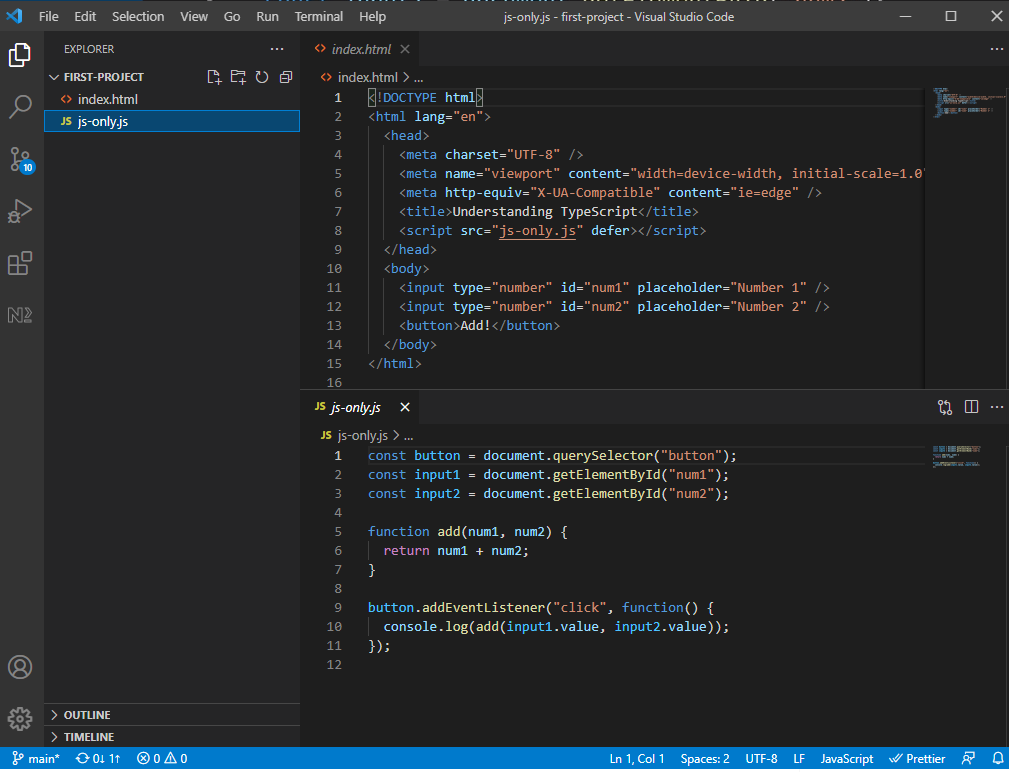
git clone https://github.com/ron2015schmitt/project-typescript.git

cd project-typescript

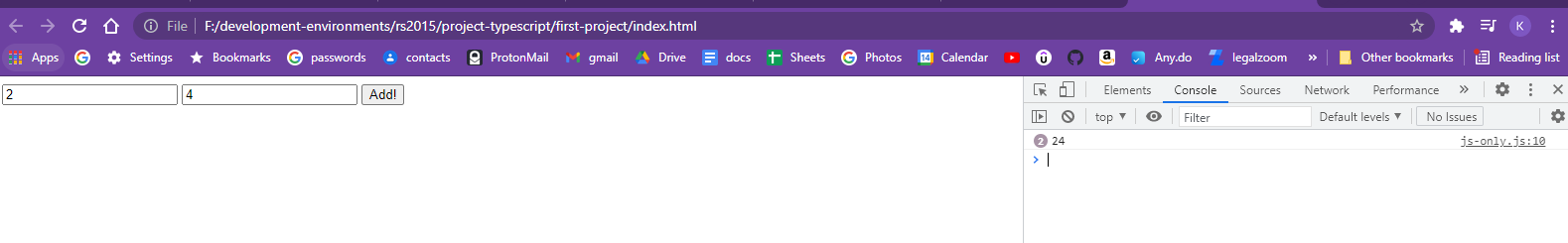
**Chap 4 Installing and Using Typescript**

This chapter we compare a Javascript project (first-project) to a Typescript project (adjusted-project).

copy the course folder ‘first-project’ to this folder and open folder in VSCode



Double-click on the index.html file and enter two number. Then press Add. Press F12 to see the output which should be “24” since it is adding strings.

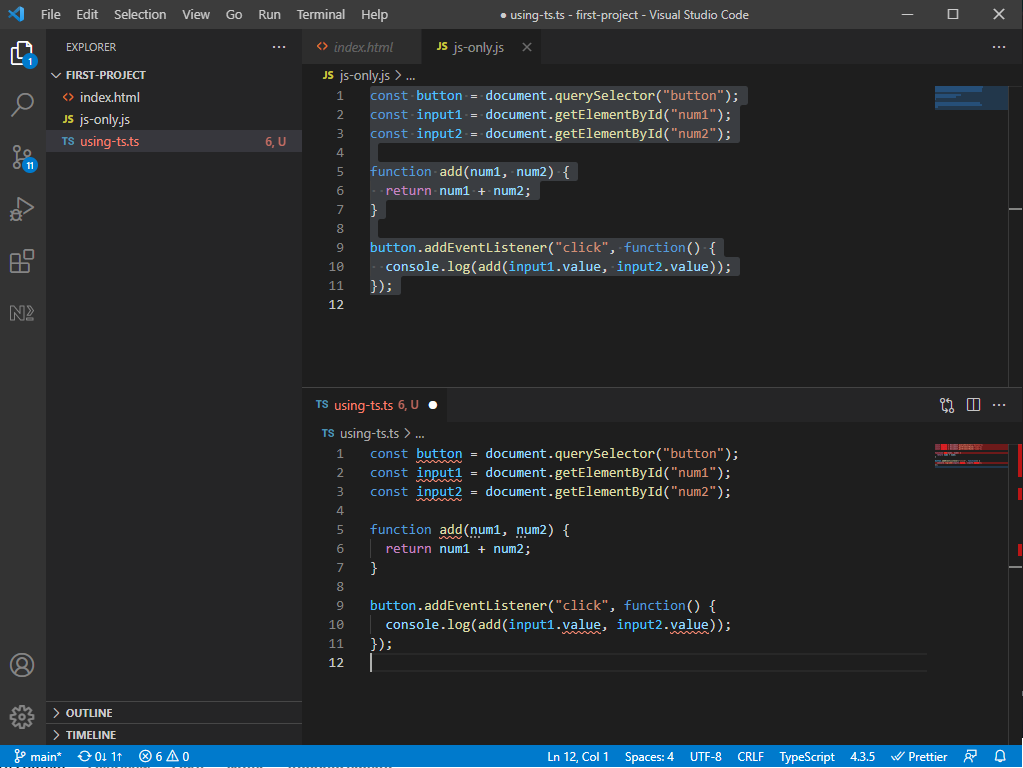


Install TypeScript to our global packages

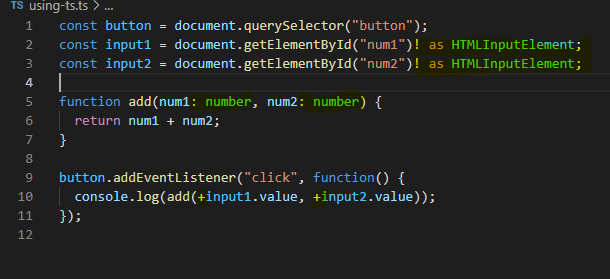
npm install -g typescript

copy the course folder ‘adjusted-project’ to this folder and open folder in VSCode

Now create using-ts.ts file and copy the contents of js-only.js to it. Notice that the TypeScript file has errors. This is because TypeScript requires that you give types to variables.

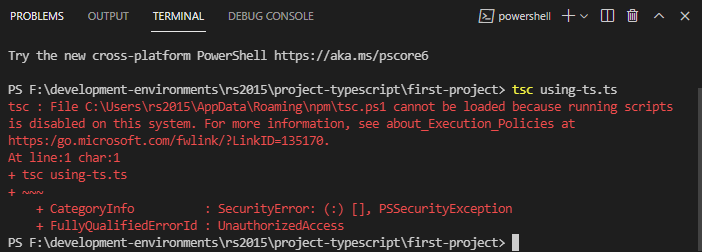


Next, **delete** the using-ts.ts file and modify the ts file as follow:

N

Now type in the following command in the terminal window to compile the ts file into a js file

tsc using-ts.ts



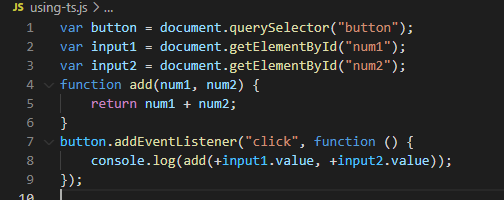
Note above that I was using PowerShell (see upper right corner), not git bash.

To fix this error, see my doc on VSCode and terminals or just use git bash instead.

No try compiling again by typing (in vscode terminal or git bash terminal)

tsc using-ts.ts

the js file should look like the following



Commit and push via vscode or git bash

**Chap 5-7 no coding needed**

**Chap 8 Setting up the Code Editor IDE**

Install VSCode.

Install ES Lint and Material Theme Icon and Path Intellisense and Prettier – Code Formatter on VSCode

**Chap 9 The course project setup**

copy the course folder basics-01-ts-benefits to this folder and open folder in VSCode

compile it

tsc app.ts

you will see a JS file get created

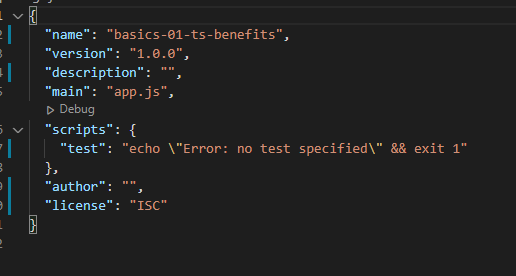
delete the package.json file. to set up from scratch perform the following **to create your package.json file**

|  |
| --- |
| npm init |



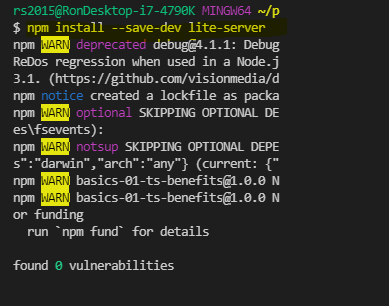
next install lite-server

here is what package.json was created

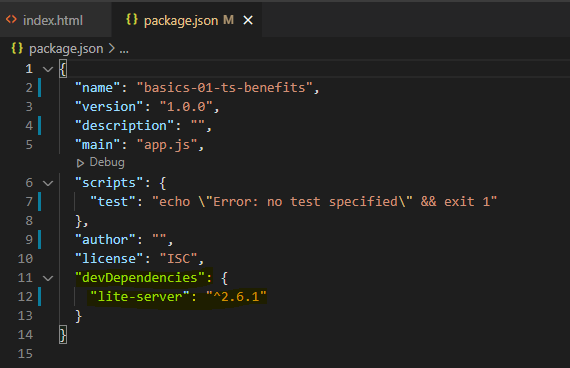


Now install the lite-server package. This is a very light weight web server that we can connect to (instead just opening a file)

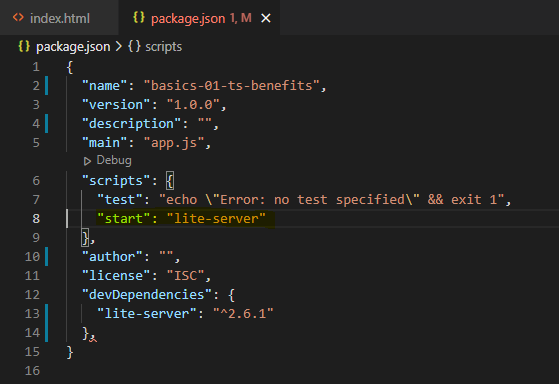
|  |
| --- |
| npm install --save-dev lite-server |



This adds a line to your package.json file

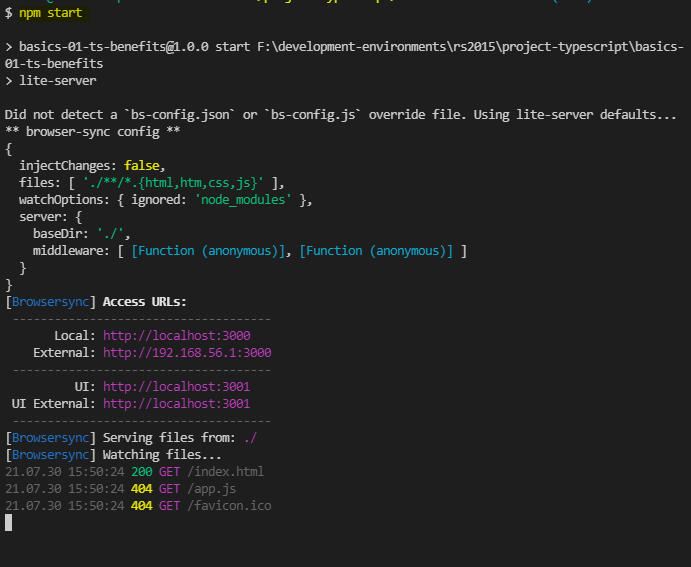


Now add lite-server script line to the package.json file as shown below



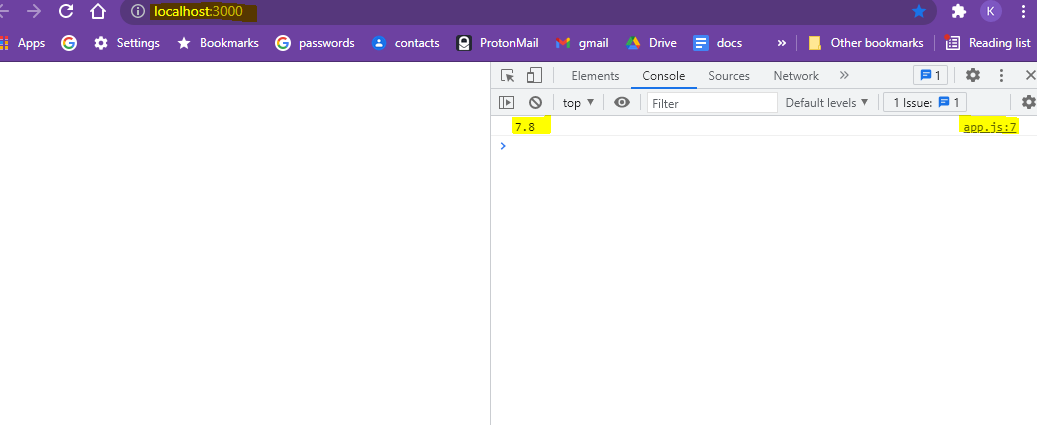
Compile and Start the web server

|  |
| --- |
| tsc app.ts  npm start |



Connect via Chrome: http://localhost:3000/

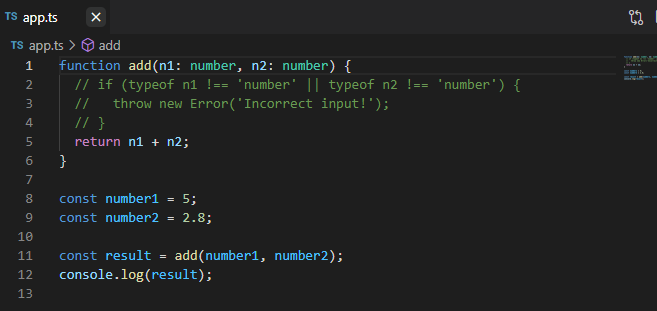
You will see a blank page. Hit F12 and you should see the output of 7.8



**Chap 10 No code**

**Chap 11 Using Types**

Copy basics-02-js-types to main directory (or modify project folder). Now we have a typed add function



|  |
| --- |
| npm install  tsc app.ts  npm start |

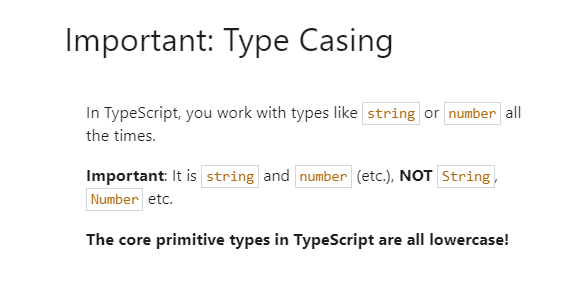
**Chap 12 Typescript Types vs Javascript types**

TypeScript = static typing (compile time)

JavaScript = dynamic typing (run time)

No new code, just explanations

**Chap 13 Note**



**Finished through chap 13**