

Configure your build with **tsconfig.json**

Step 1: define a tsconfig file on root :

```
{  
  "compilerOptions": {  
    "outDir": "dist"  
  },  
  "include": ["src/**/*.ts"],  
}
```

The build folder

What is included In the build

Step 2: run TSC on root :

```
tsc
```

Step 3: run node on dist folder

```
node dist/Main.ts
```

Learn to understand a **documentation**

<https://www.typescriptlang.org/tsconfig#include>

Description and example



Include - `include`

Specifies an array of filenames or patterns to include in the program. These filenames are resolved relative to the directory containing the `tsconfig.json` file.

```
{
  "include": ["src/**/*", "tests/**/*"]
}
```

Default value if **not** specified



Default:

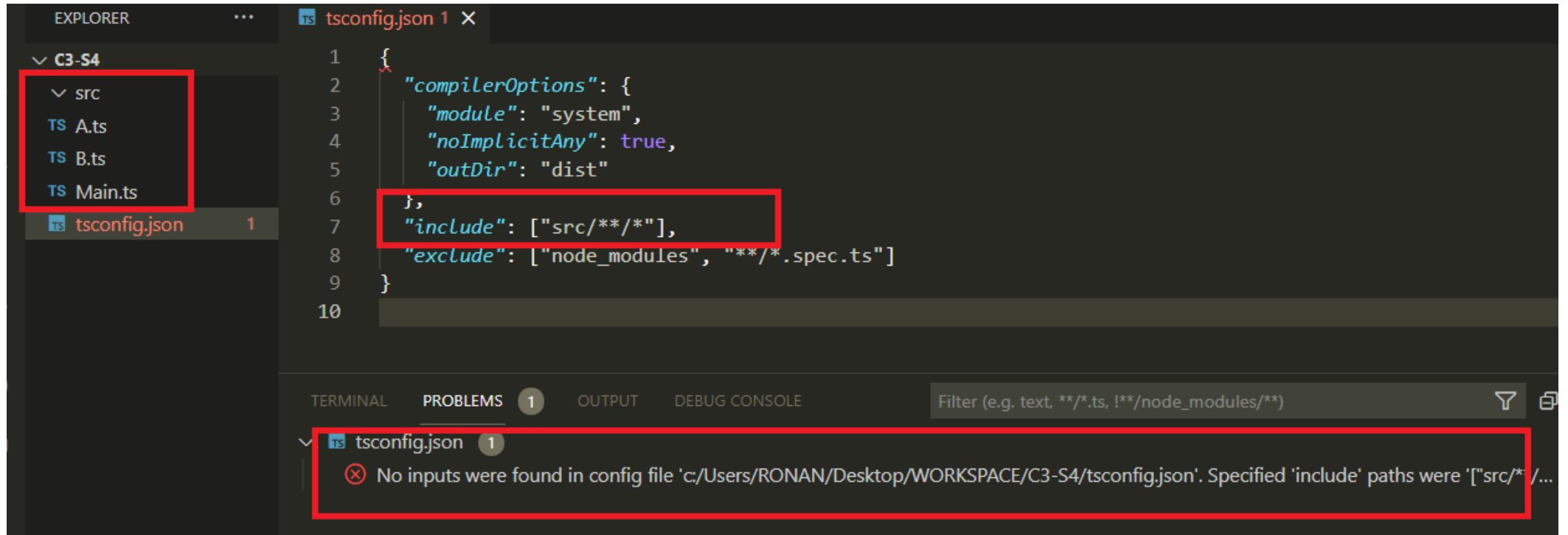
`[]` if `files` is specified,

`**` otherwise.



ACTIVITY 1

// 1 - Open the project : you should see the following error : “no input found in config file...”



// 2 -Fix this code by moving the 3 files into the /src folder

// 3 - Run TSC and run NODE dist/Main.ts


Export and Import your classes

Typescript share the same idea of **modules** (export/import...) than JS and NodeJS

```
C:\Users\RONAN\Desktop\WORKSPACE\C3-S4\dist\Main.js:1
var testA = new A();
               ^

ReferenceError: A is not defined
    at Object.<anonymous> (C:\Users\RONAN\Desktop\WORKSPACE\C3-S4\dist\Main.js:1:13)
    at Module.compile (internal/modules/cjs/loader.js:778:20)
```

Class A need to be **exported on A.ts** and **imported on Main.ts**



```
export class A {
  printA() {
    console.log("A");
  }
}
```

```
import { A } from "./A";
let testA = new A();
let testB = new B();

testA.printA();
testB.printB();
```



ACTIVITY 2

// Fix the code to avoid errors related to the import/export of modules

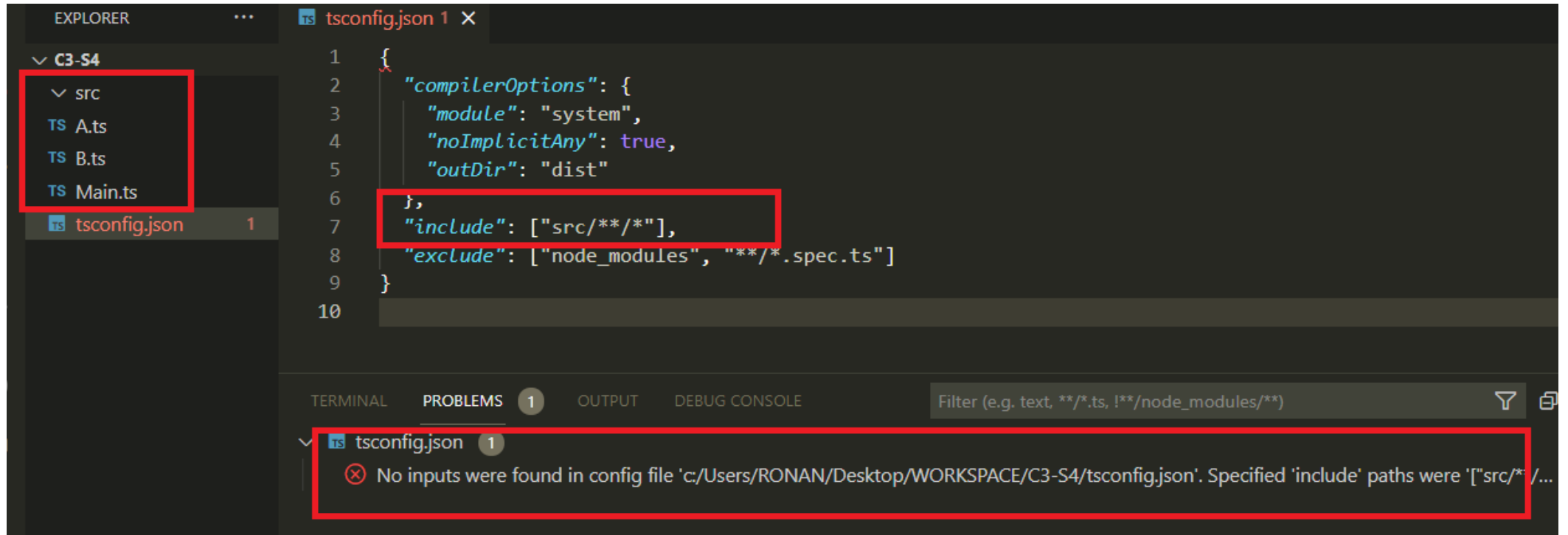
```
C:\Users\RONAN\Desktop\WORKSPACE\C3-S4\dist\Main.js:1
var testA = new A();
               ^

ReferenceError: A is not defined
    at Object.<anonymous> (C:\Users\RONAN\Desktop\WORKSPACE\C3-S4\dist\Main.js:1:13)
    at Module.compile (internal/modules/cjs/loader.js:778:20)
```



ACTIVITY 2

// 1 - Open the project : you should see the following error : “no input found in config file...”



// 2 -Fix this code by moving the 3 files into the /src folder

// 3 - Run TSC and run NODE dist/Main.ts

While developing you can also use ts-node

Step 1: install ts-node (if not done yet)

```
npm install -g ts-node
```

Step 2: run ts-node on root :

```
ts-node src/Main.ts
```



BUILD + RUN at the same time