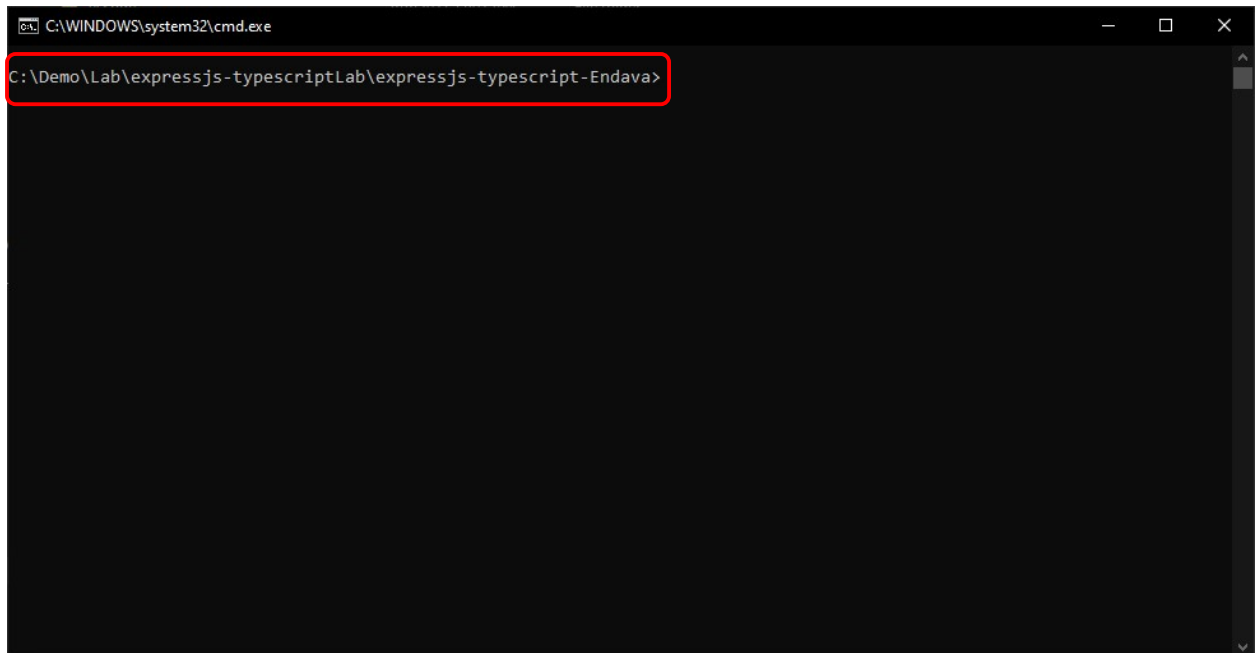
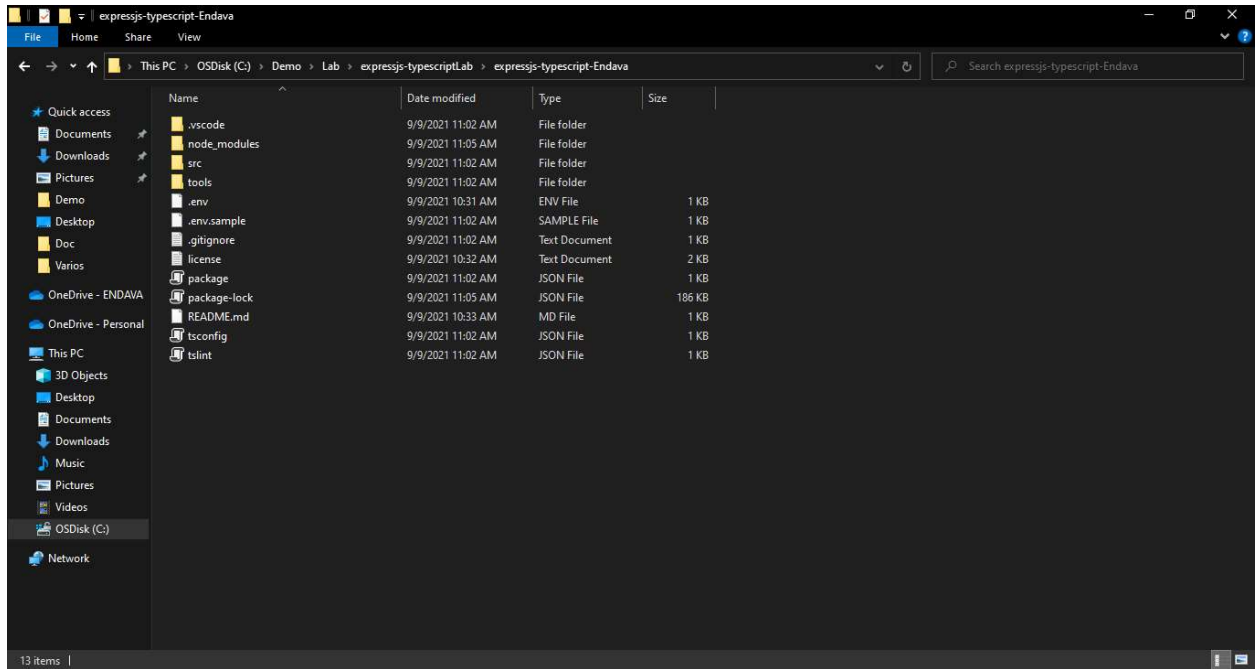
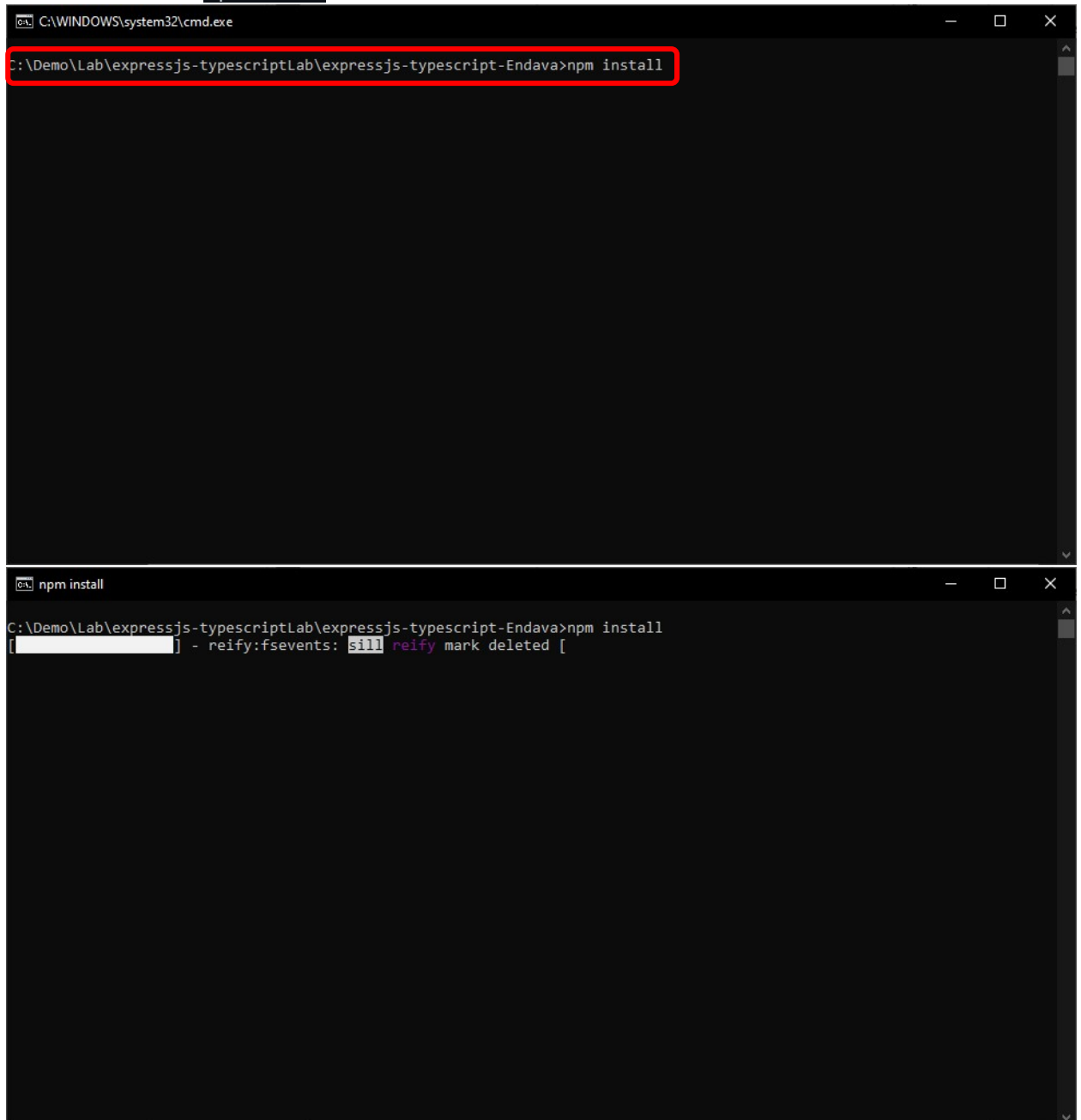


ExpressJS TypeScript

- 1) Clone the repository from: <https://github.com/allsoftcolombia/EndavaDemo.git>
- 2) In nodejs command prompt go to the folder of the repository



3) Run the command `npm install`



The image displays two screenshots of a Windows command prompt window. The top screenshot shows the command prompt with the title bar 'C:\WINDOWS\system32\cmd.exe'. The command `C:\Demo\Lab\expressjs-typescriptLab\expressjs-typescript-Endava>npm install` is entered and highlighted with a red rectangular box. The bottom screenshot shows the same command prompt with the title bar 'npm install'. The command `C:\Demo\Lab\expressjs-typescriptLab\expressjs-typescript-Endava>npm install` has been executed, and the output is visible: `[] - reify:fsevents: sill reify mark deleted [`. The command prompt window has a dark background and a scrollbar on the right side.

```
C:\WINDOWS\system32\cmd.exe

C:\Demo\Lab\expressjs-typescriptLab\expressjs-typescript-Endava>npm install

up to date, audited 274 packages in 2s

23 packages are looking for funding
  run `npm fund` for details

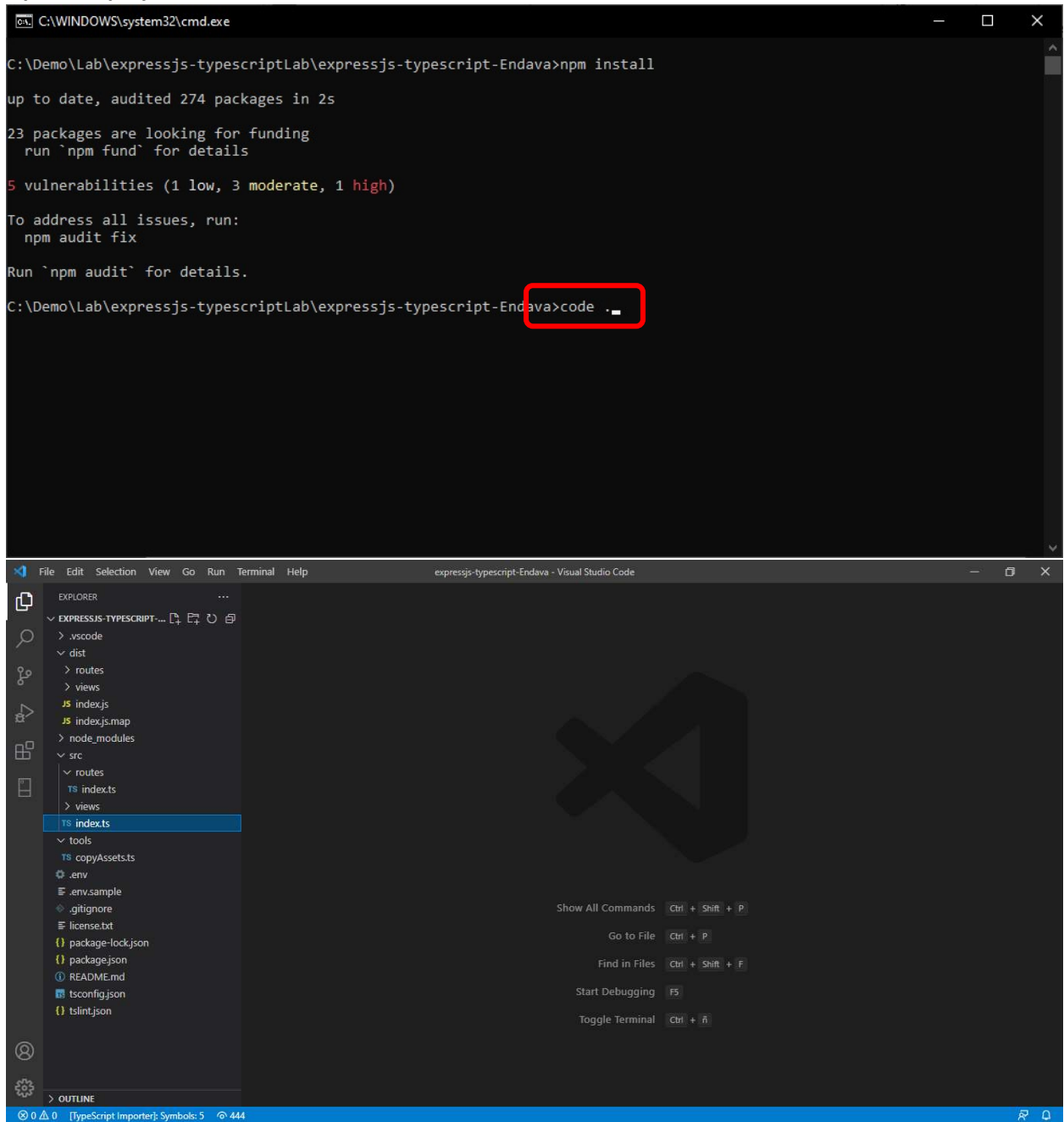
5 vulnerabilities (1 low, 3 moderate, 1 high)

To address all issues, run:
  npm audit fix

Run `npm audit` for details.

C:\Demo\Lab\expressjs-typescriptLab\expressjs-typescript-Endava>
```

4) Open the project in VSCODE



The image shows a Windows command prompt window and the Visual Studio Code interface. The command prompt window is titled "C:\WINDOWS\system32\cmd.exe" and shows the output of an npm install command. The output includes information about the number of packages audited, funding information, and a list of vulnerabilities. The command prompt is currently at the prompt "C:\Demo\Lab\expressjs-typescriptLab\expressjs-typescript-Endava>code ." with the "code ." command highlighted by a red rectangle. The Visual Studio Code interface is shown below the command prompt, displaying the Explorer view with the project structure. The project structure includes a .vscode folder, a dist folder, routes, views, index.js, index.js.map, node_modules, src, tools, copyAssets.ts, .env, .env.sample, .gitignore, license.txt, package-lock.json, package.json, README.md, tsconfig.json, and tslint.json. The TS index.ts file is selected in the Explorer view. The status bar at the bottom indicates the project is using TypeScript and has 5 symbols and 444 errors.

```
C:\WINDOWS\system32\cmd.exe

C:\Demo\Lab\expressjs-typescriptLab\expressjs-typescript-Endava>npm install

up to date, audited 274 packages in 2s

23 packages are looking for funding
  run `npm fund` for details

5 vulnerabilities (1 low, 3 moderate, 1 high)

To address all issues, run:
  npm audit fix

Run `npm audit` for details.

C:\Demo\Lab\expressjs-typescriptLab\expressjs-typescript-Endava>code .
```

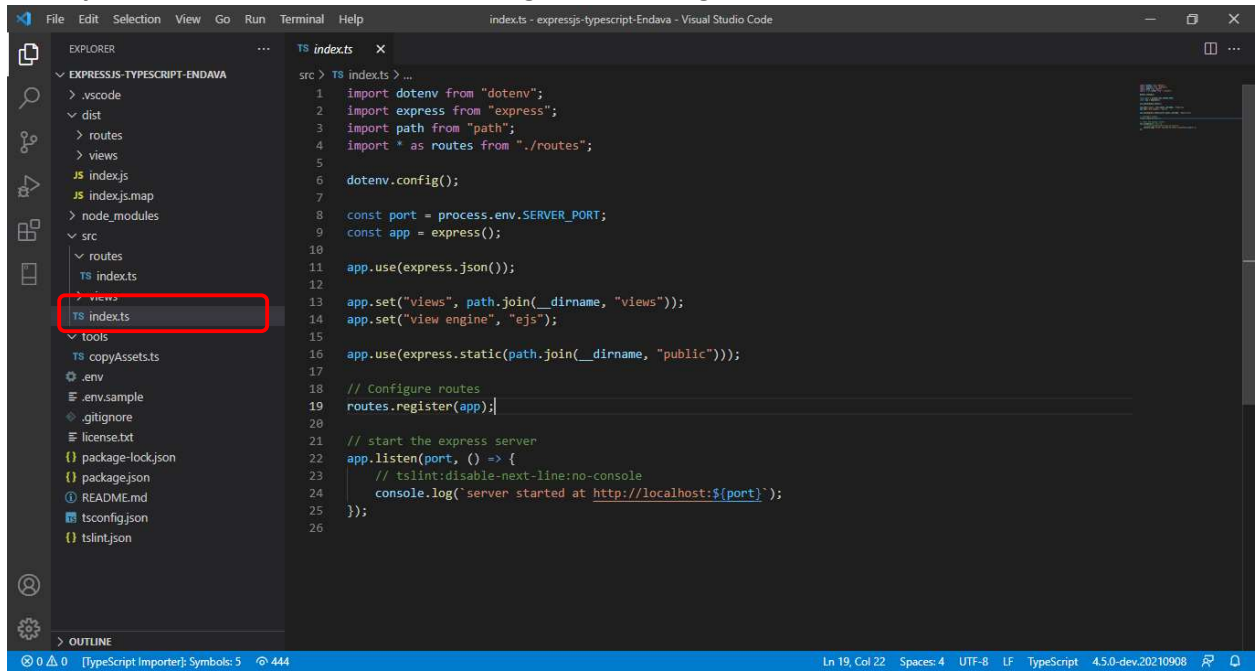
Visual Studio Code interface showing the Explorer view with the project structure:

- EXPLORER
 - EXPRESSJS-TYPESCRIPT-...
 - .vscode
 - dist
 - routes
 - views
 - index.js
 - index.js.map
 - node_modules
 - src
 - routes
 - index.ts
 - views
 - tools
 - copyAssets.ts
 - .env
 - .env.sample
 - .gitignore
 - license.txt
 - package-lock.json
 - package.json
 - README.md
 - tsconfig.json
 - tslint.json

Visual Studio Code interface showing the status bar at the bottom:

0 0 0 [TypeScript Importer] Symbols: 5 444

5) Modify the file named "Index.ts", according with the image

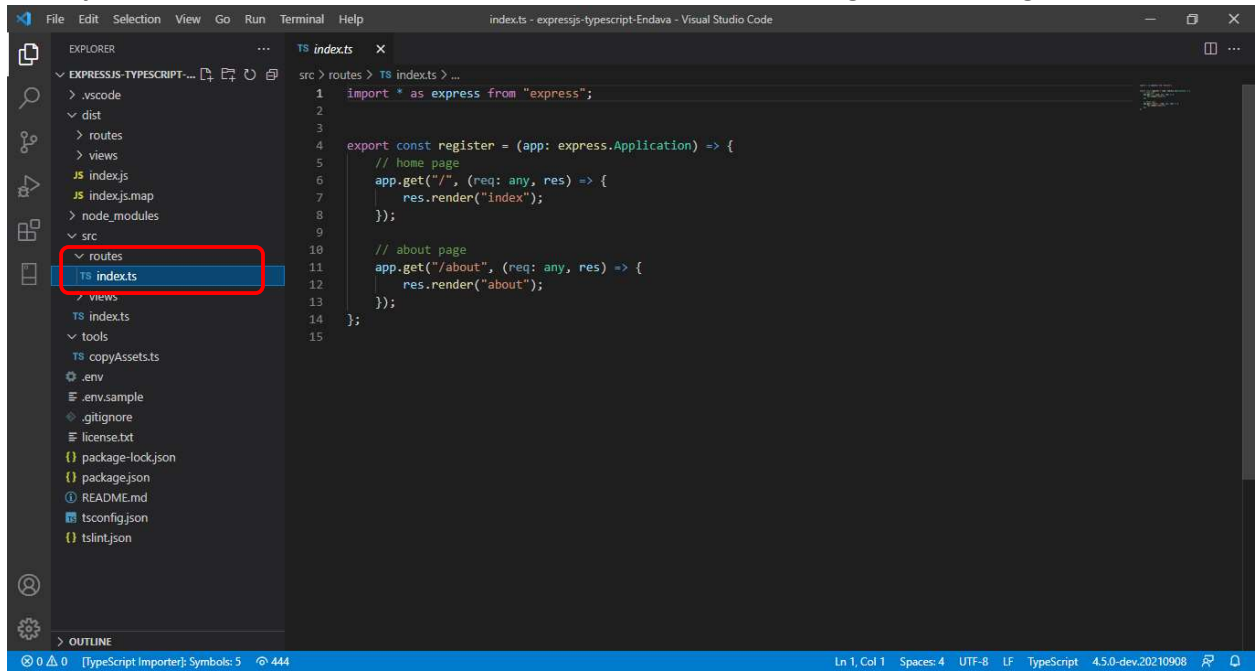


```
File Edit Selection View Go Run Terminal Help
index.ts - expressjs-typescript-Endava - Visual Studio Code

EXPLORER
EXPRESSJS-TYPESCRIPT-ENDAVA
  .vscode
  dist
  routes
  views
  JS index.js
  JS index.js.map
  node_modules
  src
    routes
    TS index.ts
    views
    TS index.ts
  tools
  TS copyAssets.ts
  .env
  .env.sample
  .gitignore
  license.txt
  package-lock.json
  package.json
  README.md
  tsconfig.json
  tslint.json

src > TS index.ts > ...
1 import dotenv from "dotenv";
2 import express from "express";
3 import path from "path";
4 import * as routes from "./routes";
5
6 dotenv.config();
7
8 const port = process.env.SERVER_PORT;
9 const app = express();
10
11 app.use(express.json());
12
13 app.set("views", path.join(__dirname, "views"));
14 app.set("view engine", "ejs");
15
16 app.use(express.static(path.join(__dirname, "public")));
17
18 // Configure routes
19 routes.register(app);
20
21 // start the express server
22 app.listen(port, () => {
23   // tslint:disable-next-line:no-console
24   console.log(`server started at http://localhost:${port}`);
25 });
26
```

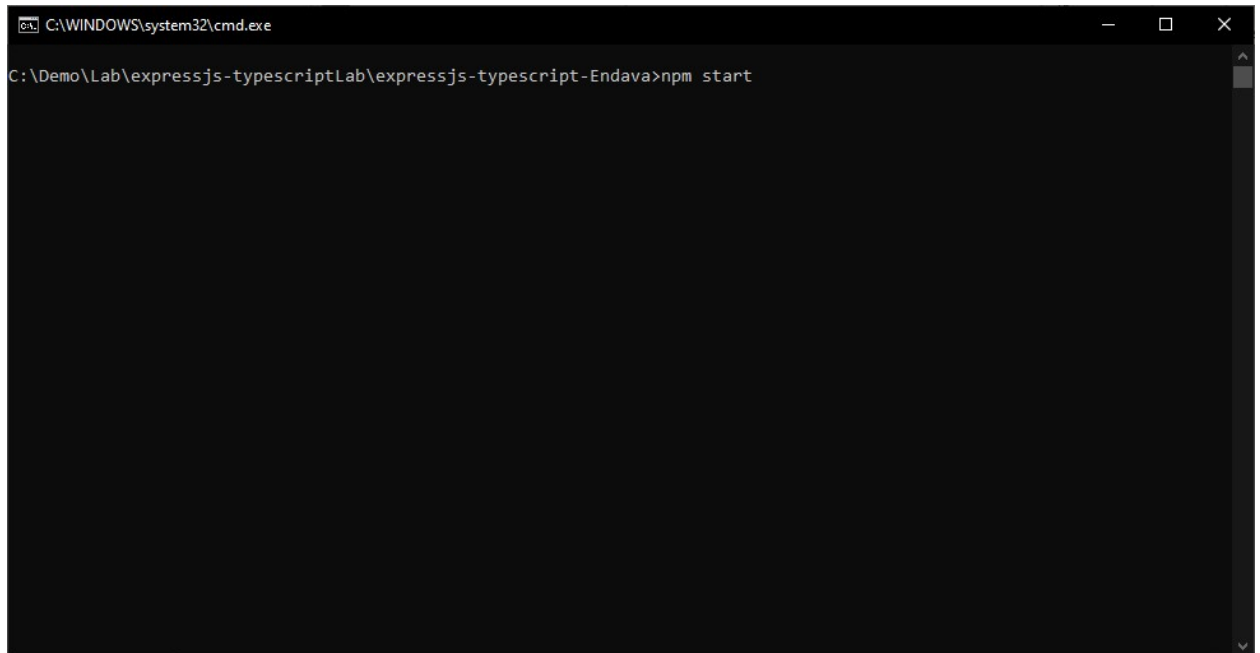
6) Modify the file named “Index.ts”, located in folder “routes”, according with the image



The screenshot shows the Visual Studio Code editor with the file 'index.ts' open. The Explorer sidebar on the left shows the project structure, with the 'routes' folder expanded and 'index.ts' selected. The code in 'index.ts' is as follows:

```
1 import * as express from "express";
2
3
4 export const register = (app: express.Application) => {
5   // home page
6   app.get("/", (req: any, res) => {
7     res.render("index");
8   });
9
10  // about page
11  app.get("/about", (req: any, res) => {
12    res.render("about");
13  });
14
15  };
```

7) In node.js command prompt executes this command “npm start”



The screenshot shows a Windows command prompt window with the title 'C:\WINDOWS\system32\cmd.exe'. The current directory is 'C:\Demo\Lab\expressjs-typescriptLab\expressjs-typescript-Endava'. The command 'npm start' has been entered and executed, resulting in a blank screen, indicating that the application has started successfully.

```
npm run dev

> express-typescript@1.0.0 build
> npm-run-all clean lint tsc copy-assets

> express-typescript@1.0.0 clean
> rimraf dist/*

> express-typescript@1.0.0 lint
> tslint -c tslint.json -p tsconfig.json

> express-typescript@1.0.0 tsc
> tsc

> express-typescript@1.0.0 copy-assets
> ts-node tools/copyAssets

cp: no such file or directory: src/public
rm: no such file or directory: dist/public/js/*.ts
rm: no such file or directory: dist/public/js/*.json

> express-typescript@1.0.0 dev
> node .

server started at http://localhost:8080
```

8) Now open the browser and type this url <http://localhost:8080>

