1.6 Import and Export Modules



This section will guide you to:

* Implement import and export modules
* Use Visual Studio Code
* Push code to Git

This lab has three subsections, namely:

* + 1. Writing a function in TypeScript to implement import and export modules
    2. Compiling the code
    3. Pushing the code to your GitHub repositories

**Step 1.6.1:** Writing a function in TypeScript to implement import and export modules

* Open Visual Studio Code, open the folder named **TypeScript Demos** and create a new file named **Employee.ts**.
* Write the program in TypeScript.

*export let age : number = 20;*

*export class Employee*

*{*

*empCode: number;*

*empName: string;*

*constructor(name: string, code: number)*

*{*

*this.empName = name;*

*this.empCode = code;*

*}*

*displayEmployee()*

*{*

*console.log ("Employee Code: " + this.empCode + ", Employee Name: " + this.empName );*

*}*

*}*

*let companyName:string = "XYZ";*

* Create another file named **EmployeeTest.ts**. Write the program in TypeScript.

*import { Employee } from "./Employee";*

*let empObj = new Employee("John", 168);*

*empObj.displayEmployee();*

**Step 1.6.2:** Compiling the code

* To compile the code, you can open the Integrated Terminal (Ctrl+`) and type the following:

*tsc EmployeeTest.ts*

* This will compile and create a new EmployeeTest.js JavaScript file.
* Type *node EmployeeTest.js*

Output:

*Employee Code: 168, Employee Name: John*

**Step 1.6.3:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add . 

Commit the changes using the following command:

git commit . -m “Changes have been committed.”

Push the files to the folder you initially created using the following command:

git push -u origin master