

Home Assignment: 2 Fundamentals of TypeScript

Objective:

Here, our aim is to be able to apply typescript concepts, compile typescript files to js files, and run it

Practice typescript concepts

- Adding types to variable
- Adding types to functions
- Adding function with optional parameters
- Adding function with default parameters
- Adding custom types
- Using combined types

Steps to configure the project:

- Create a new project to add typescript code
- Open the new project in VS code
- Now open the VS code terminal and install typescript using npm
 - `npm install typescript`
 - Check if the TypeScript compiler is installed
 - `tsc -version`
- Now create a new typescript file with `.ts` extension where you will be writing your typescript code

Now start coding

- We have added a dummy skeleton code in a JavaScript file, which you can access from this repository (https://github.com/testleafrainings/Playwright_JS_Weekend_Tasks/blob/main/Homework/Week1/Day2/cw.js)
- Now try to convert this js code into typescript and try to apply all the hints written in the comments
- Then start implementing the script as per the given flow

Reading document:

- How to add return type in TypeScript
https://www.w3schools.com/typescript/typescript_functions.php
- How to see if the array includes the given value
https://www.w3schools.com/jsref/jsref_includes_array.asp

```
//Script

/**
 * 1. ask user his name
 * 2. ask user his account number
 * 3. ask user his type of account
 * 4. now check if for the type of account selected, the given account number exist or not
 * 4.a If account number does not exist then ask him
 * 4.a.1 if he want to open a new account
 * 4.a.2 ask him the type of account he want to open
 * 4.a.3 then add a new account for him and update the array with the new acccount
 *
 * 4.b If account number is valid, just print the message "You can proceed further"
 */
```

Expected Outcome:

Upon completion, you should be able to:

- Grasp TypeScript's core concepts, syntax, data types, and principles to create type-safe and maintainable JavaScript code for efficient automation testing