1.7 Function Parameters

This section will guide you to:

* Create and run TypeScript code in your terminal
* Define functions with parameters in TypeScript

This lab has two subsections, namely:

1.7.1 Writing a TypeScript program that defines functions and arguments in TypeScript

1.7.2 Executing the program and verifying how function parameters work

**Step 1.7.1:** Writing a TypeScript program that defines functions and arguments in TypeScript

Open your code editor and create a new file to type the code in

* *[Right click]* on the **File menu** of the code editor -> Select *New File*
* Enter the below code resolving the warning and errors due to compatibility-related issues
* *[Right click]* on the **File menu** of the code editor -> Select *Save as* -> Enter the filename (with**.ts** file extension) -> Click *Save*

const sum = (a: number, b: number = 10): number => {

console.log('a =', a);

console.log('b =', b);

return a + b;

};

const c: number = sum(20, 30);

console.log('c =', c);

const d: number = sum(20);

console.log('d =', d);

**Step 1.7.2:**  Executing the program and verifying how function parameters work

If TypeScript is not already installed, you’ll need to install it by running the command, ***npm install –g typescript*** from the terminal. Before you execute the program, check for syntactical corrections. If no errors are found, follow the steps mentioned below:

* Open the terminal
* Navigate to the directory where the code is stored
* Type the command *tsc [fileName.ts]* and press Enter
* The code will compile
* Type the command node [fileName.js] and press Enter
* The code will produce the following output

