ACIT 2520

BCIT

Take-home Assignment	3

Student Name:_____

BCIT ID: A_____

Exercise Objective:
The purpose of this assignment is to practice the concepts and skills which are covered in Week 8 & 9.

You need to submit a zip file for Task 1, along with a Word/PDF file for Task 2 & 3.

Task 1: Make a Node/Express.js project

> Requirements:
> 1) Listen to port 8081
> 2) Home Page: shows a table of all your Term 2 courses, with details:
>   a. Course number
>   b. Course name
>   c. Description
>   d. Credits
>   e. Pre-requisites
> 3) Information should be loaded from a .json file from server
> 4) Using TypeScript to define a type for course
> 5) Your zip file should include both of .ts file and .js file

Task 2: Explain what ES6 features you used in this application, along with your code snippets
> Note: let, const and arrow functions will not count for this assignment
> Template Literals:

```
`<tr><td>${data[i].number}</td><td>${data[i].name}</td><td>${data[i].Description}</td><td>${data[i].credits}</td><td>${data[i].Prerequisites}</td>
```

> Default Parameters:

```
function table_filler(data:Array<Course>=courses)
function json_organizer(file=data)
```

Task 3: Code snippet:
- Type definition with TypeScript

```
type list = Array<Course>
let courses: list = []
```

- Loading/reading the .json file

```
function json_organizer(file){
    let obj = JSON.parse(JSON.stringify(file))
```