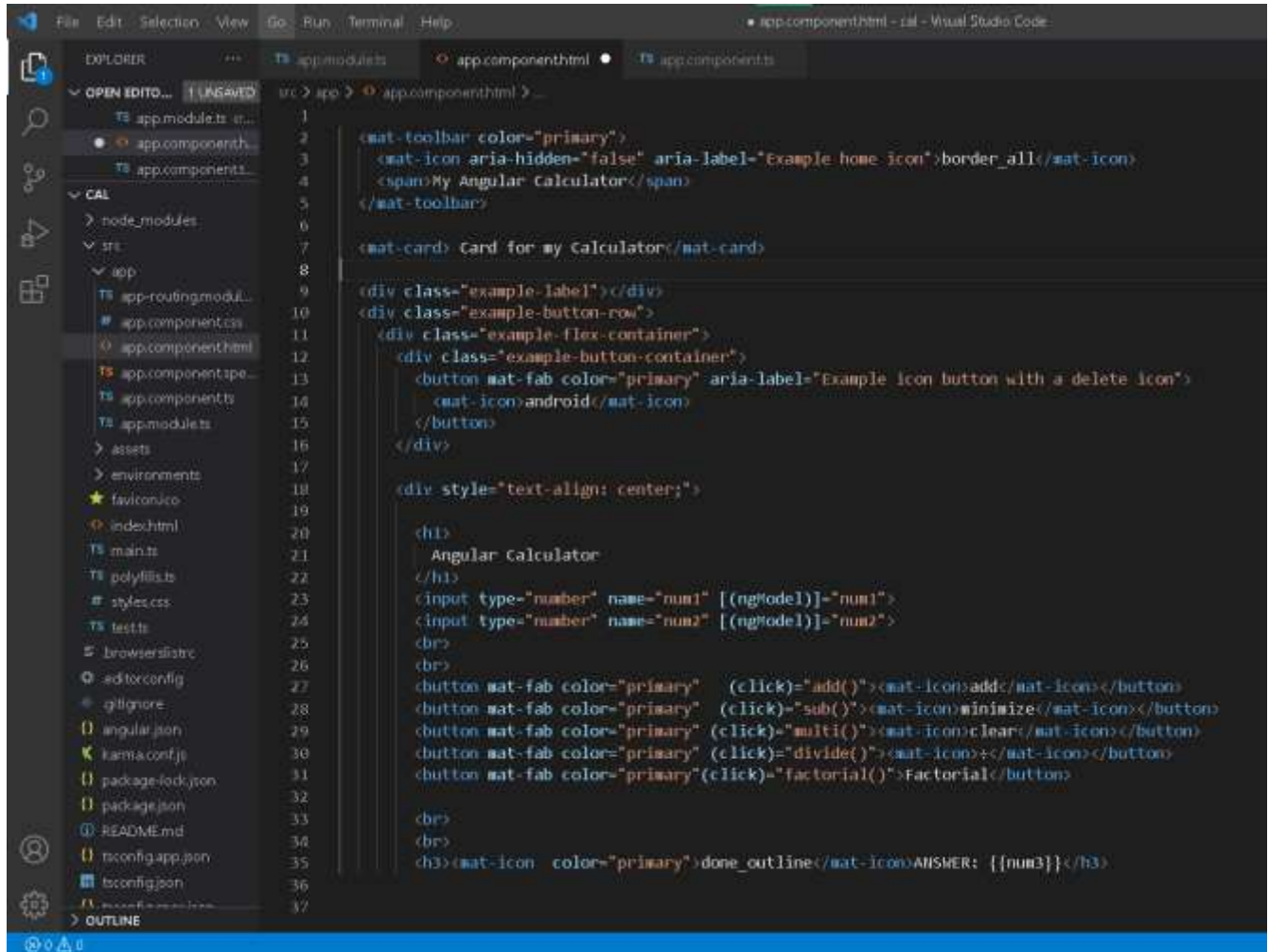# Scripting language lab Assignment

Jigme Gyalpo Bhutia

(202011507)

Sec-A

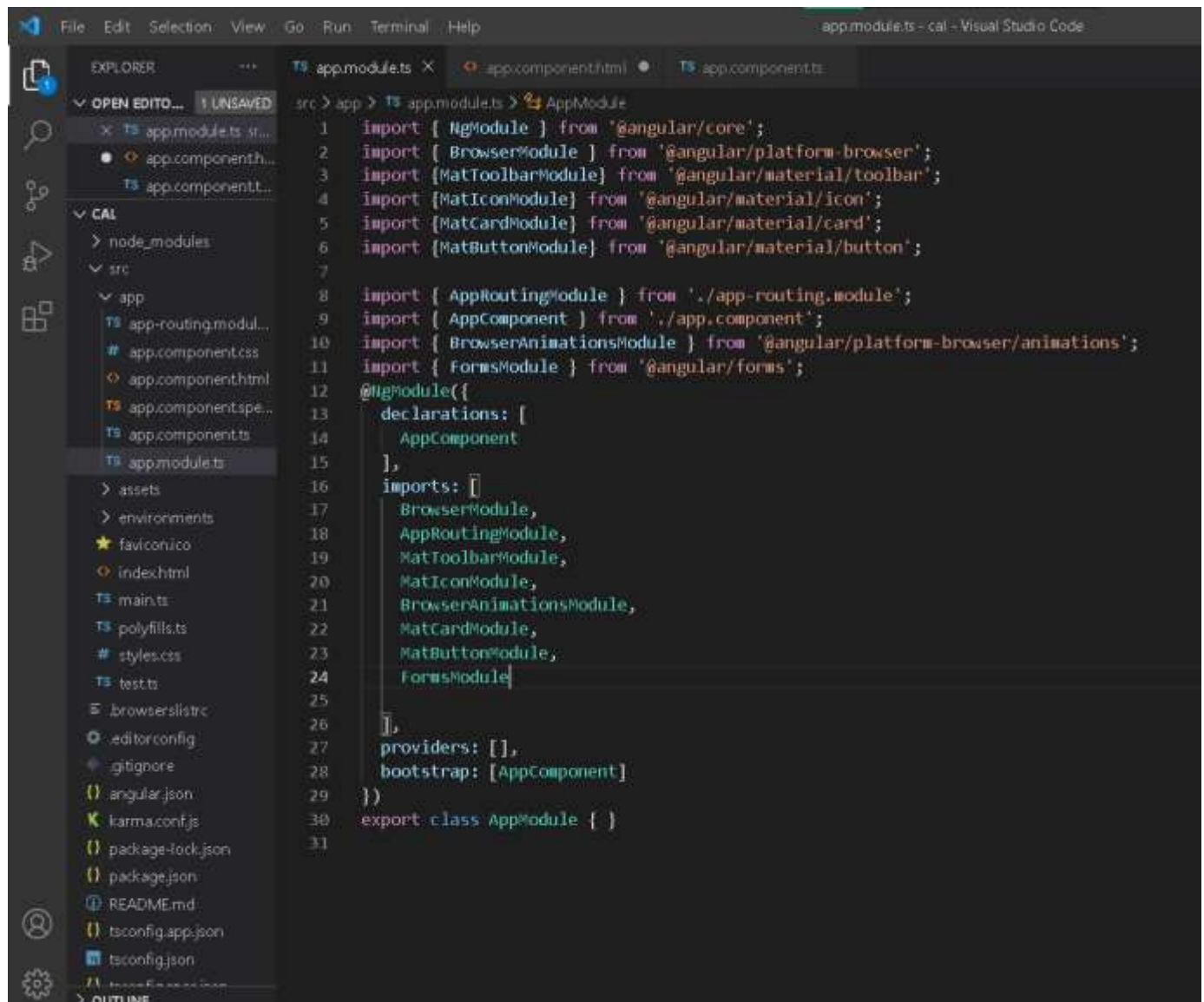Q)Create a calculator app using Angular which is capable of performing following operations:

- Addition of two numbers
- Subtraction of two numbers
- Multiplication of two numbers
- Division of two numbers
- Factorial of a number

Codes:

Fig-App.component.html
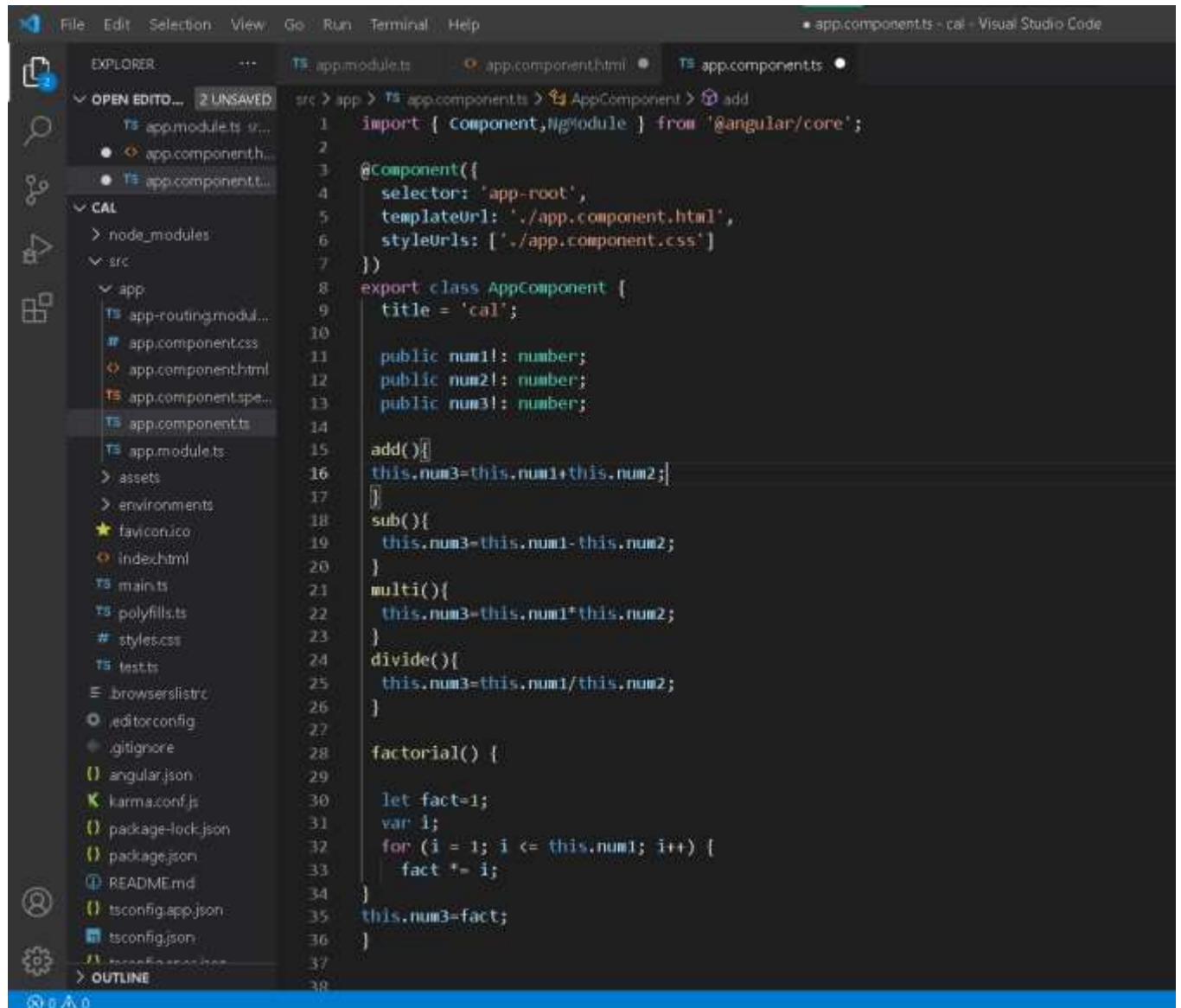
EXPLORER

∨ OPEN EDITO...   1 UNSAVED
  × TS app.module.ts sr...
  ● <> app.component.h...
     TS app.component.t...

∨ CAL
  > node_modules
  ∨ src
    ∨ app
       TS app-routing.modul...
       # app.component.css
       <> app.component.html
       TS app.component.spe...
       TS app.component.ts
       TS app.module.ts
    > assets
    > environments
    ★ favicon.ico
    <> index.html
    TS main.ts
    TS polyfills.ts
    # styles.css
    TS test.ts
    ≋ .browserslistrc
    ⚙ .editorconfig
    ◆ .gitignore
    {} angular.json
    K karma.conf.js
    {} package-lock.json
    {} package.json
    ⓘ README.md
    {} tsconfig.app.json
    ⬛ tsconfig.json

> OUTLINE

TS app.module.ts ×   <> app.component.html ●   TS app.component.ts

src > app > TS app.module.ts > ⬚ AppModule

```typescript
 1   import { NgModule } from '@angular/core';
 2   import { BrowserModule } from '@angular/platform-browser';
 3   import {MatToolbarModule} from '@angular/material/toolbar';
 4   import {MatIconModule} from '@angular/material/icon';
 5   import {MatCardModule} from '@angular/material/card';
 6   import {MatButtonModule} from '@angular/material/button';
 7
 8   import { AppRoutingModule } from './app-routing.module';
 9   import { AppComponent } from './app.component';
10   import { BrowserAnimationsModule } from '@angular/platform-browser/animations';
11   import { FormsModule } from '@angular/forms';
12   @NgModule({
13     declarations: [
14       AppComponent
15     ],
16     imports: [
17       BrowserModule,
18       AppRoutingModule,
19       MatToolbarModule,
20       MatIconModule,
21       BrowserAnimationsModule,
22       MatCardModule,
23       MatButtonModule,
24       FormsModule
25
26     ],
27     providers: [],
28     bootstrap: [AppComponent]
29   })
30   export class AppModule { }
31
```

Fig-App.module.ts

File   Edit   Selection   View   Go   Run   Terminal   Help

EXPLORER   ...

∨ OPEN EDITO...   2 UNSAVED
      TS app.module.ts sr...
   ● ◇ app.component.h...
   ● TS app.component.t...
∨ CAL
   > node_modules
   ∨ src
      ∨ app
         TS app-routing.modul...
         # app.component.css
         ◇ app.component.html
         TS app.component.spe...
         TS app.component.ts
         TS app.module.ts
      > assets
      > environments
      ★ favicon.ico
      ◇ index.html
      TS main.ts
      TS polyfills.ts
      # styles.css
      TS test.ts
      ☰ .browserslistrc
      ○ .editorconfig
      ◆ .gitignore
      {} angular.json
      K karma.conf.js
      {} package-lock.json
      {} package.json
      ⓘ README.md
      {} tsconfig.app.json
      ▦ tsconfig.json
> OUTLINE

⊗ 0 ⚠ 0

TS app.module.ts   ◇ app.component.html ●   TS app.component.ts ●

src > app > TS app.component.ts > ⚙ AppComponent > ⊕ add

```typescript
 1   import { Component,NgModule } from '@angular/core';
 2
 3   @Component({
 4     selector: 'app-root',
 5     templateUrl: './app.component.html',
 6     styleUrls: ['./app.component.css']
 7   })
 8   export class AppComponent {
 9     title = 'cal';
10
11     public num1!: number;
12     public num2!: number;
13     public num3!: number;
14
15     add(){
16     this.num3=this.num1+this.num2;
17     }
18     sub(){
19       this.num3=this.num1-this.num2;
20     }
21     multi(){
22       this.num3=this.num1*this.num2;
23     }
24     divide(){
25       this.num3=this.num1/this.num2;
26     }
27
28     factorial() {
29
30       let fact=1;
31       var i;
32       for (i = 1; i <= this.num1; i++) {
33         fact *= i;
34     }
35     this.num3=fact;
36     }
37
38
```

Fig-App.components.ts