

Name : Vishwajeet Deshmukh

Enroll No: 2202815

Class : MSc CS Part-II

## UIUX Practical Assignment

### AngularJS

Q1. Accept a number from user, display its square.

```
my-app > src > app > TS app.component.ts > AppComponent
1  import { Component } from '@angular/core';
2  @Component({
3    selector: 'app-square',
4    template: `<input type="number" [(ngModel)]="num" />
5    <button (click)="squareNum()">Square</button>
6    <p>The square of the number is {{ square }}</p>`,
7  })
8  export class AppComponent {
9    num: number = 0;
10   square: number = 0;
11   squareNum() {
12     this.square = this.num * this.num;
13   }
14 }
```

Output :

---

The square of the number is 400

**Q2.** Create 2 angular component named class and college, print “MSc (CS) part II” and

“Modern College” from respective classes. Call College component from root, and class

component from college.

Class.Component.ts file:

```
my-app > src > app > class > TS class.component.ts > ...
1  import { Component } from '@angular/core';
2  @Component({
3    selector: 'app-class',
4    templateUrl: './class.component.html',
5    styleUrls: ['./class.component.css']
6  })
7  export class ClassComponent {
8    className = "M.Sc.(Computer Science) Part - II";
9  }
```

College.Component.ts file:

```
my-app > src > app > college > TS college.component.ts > ...
1  import { Component } from '@angular/core';
2  import { ClassComponent } from '../class/class.component';
3  @Component({
4    selector: 'app-college',
5    templateUrl: './college.component.html',
6    styleUrls: ['./college.component.css']
7  })
8  export class CollegeComponent {
9    className = "Modern College of Arts, Commerce and Science";
10 }
```

class.component.html file:

```
my-app > src > app > class > class.component.html > ...
1  <div>
2    <h2>My Class</h2>
3    <p>I am studying in {{className}}</p>
4  </div>
5
```

college.component.html file:

```
my-app > src > app > college > college.component.html > div
1  <div>
2    <h2>My College</h2>
3    <p>I am from {{className}}</p>
4    <app-class></app-class>
5  </div>
```

app.component.html file:

```
my-app > src > app > app.component.html > ...
1  <div class="app">
2    <h1>Demonstration of Nested Components in AngularJS</h1>
3    <app-college></app-college>
4  </div>
```

**Output :**

# **Demonstration of Nested Components in AngularJS**

## **My College**

I am from Modern College of Arts, Commerce and Science

## **My Class**

I am studying in M.Sc.(Computer Science) Part - II

**Q.3** Accept a font size from user and apply it to following text using component directives:

Modern college of Arts, Science and Commerce.

font-size.component.ts file:

```
my-app > src > app > font-size > TS font-size.component.ts > ...
1  import { Component } from '@angular/core';
2  @Component({
3    selector: 'app-font-size',
4    templateUrl: './font-size.component.html',
5    styleUrls: ['./font-size.component.css']
6  })
7  export class FontSizeComponent {
8    fontSize = 15;
9  }
```

font-size.component.html file:

```
my-app > src > app > font > font.component.html > ...
1  <div class="app">
2    <input type="number" [(ngModel)]="fontSize" />
3    <p [style.font]="fontSize + 'px'">Modern College of Arts, Commerce and Science</p>
4  </div>
```

app.component.html file:

```
my-app > src > app > app.component.html > div.app
1  <div class="app">
2    <h1>Demonstration of how to use Component Directives in AngularJS</h1>
3    <app-font></app-font>
4  </div>
```

**Output :**

## Demonstration of how to use Component Directives in AngularJS

Modern College of Arts, Commerce and Science

## Demonstration of how to use Component Directives in AngularJS

Modern College of Arts, Commerce and Science

**Q.4** Accept a roll no from user and display student information using components.

student-service.component.ts file:

```
my-app > src > app > student-service > TS student-service.component.ts > ...
1  import { Injectable } from '@angular/core';
2  @Injectable({
3    providedIn: 'root'
4  })
5  export class StudentServiceComponent {
6    students: any[] = [
7      { rollNo: 2202815, name: 'Vishwajeet Deshmukh', class: 'M.Sc.(CS) Part -II' },
8      { rollNo: 2202411, name: 'Aman Inamdar', class: 'M.Sc.(CS) Part -II'},
9      { rollNo: 2202811, name: 'Akash Jagdale', class: 'M.Sc.(CS) Part -II'},
10     { rollNo: 2202512, name: 'Mayuresh Pawashe', class: 'M.Sc.(CS) Part -II'},
11   ];
12   constructor() { }
13   getStudentInfo(rollNo: number) {
14     return this.students.find(student => student.rollNo === rollNo);
15   }
16 }
```


student-info.component.ts file:

```
my-app > src > app > student-info > TS student-info.component.ts > ...
1  import { Component } from '@angular/core';
2  import { StudentServiceComponent } from '../student-service/student-service.component';
3  @Component({
4    selector: 'app-student-info',
5    templateUrl: './student-info.component.html',
6    styleUrls: ['./student-info.component.css']
7  })
8  export class StudentInfoComponent {
9    rollNo!: number;
10    studentInfo: any;
11    constructor(private studentService: StudentServiceComponent) { }
12    getStudentInfo() {
13      this.studentInfo = this.studentService.getStudentInfo(this.rollNo);
14    }
15  }
```

### student-info.component.html file:

```
my-app > src > app > student-info > <> student-info.component.html > ...
1  <div>
2    <h1>Student Information</h1>
3    <input type="number" [(ngModel)]="rollNo" placeholder="Enter the roll number here..." />
4    <br /><br />
5    <button (click)="getStudentInfo()">Get Student Info</button>
6    <p *ngIf="studentInfo">
7      Name: {{studentInfo.name}}
8    <br>
9      Class: {{studentInfo.class}}
10   </p>
11 </div>
```

### app.component.html file:

```
my-app > src > app > <> app.component.html >  div
1  <div>
2    <app-student-info></app-student-info>
3  </div>
```



**Output :**

# Student Information

Name: Akash Jagdale

Class: M.Sc.(CS) Part -II