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
      import { Component } from '@angular/core';
      @Component({
      selector: 'app-square',
      template: `<input type="number" [(ngModel)]="num" />
      <button (click)="squareNum()">Square</button>
      The square of the number is {{ square }}`,
      export class AppComponent {
    num: number = 0;
     square: number = 0;
 11
      squareNum() {
      this.square = this.num * this.num;
 12
 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:

college.component.html file:

app.component.html file:

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:

app.component.html file:

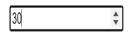
Output:

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    }

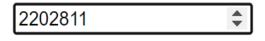
15 }
```

student-info.component.html file:

app.component.html file:

Output:

Student Information



Get Student Info

Name: Akash Jagdale Class: M.Sc.(CS) Part -II