MEAN STACK TECHNOLOGIES

MODULE II- ANGULAR JS AND MONGODB

EXPERIMENT: 3A

Module Name: Attribute Directives - ngStyle

Apply multiple CSS properties to a paragraph in a component using ngStyle.

Solution:

Step 1: Install Angular CLI (if not already installed)

npm install -g @angular/cli

Step 2: Create a new Angular project

ng new loginDemo

cd loginDemo

Step 3: Generate a new component for the login form

ng generate component my-style-component

Step 4: Update the mystyle component

```
my-style-component.component.ts

import { Component } from '@angular/core';
import { RouterOutlet } from '@angular/router';
import { LoginComponent } from './login/login.component';
import { CommonModule } from '@angular/common';
import { NgForComponent } from './ng-for/ng-for.component';
import { NgSwitchExampleComponent } from './ng-switch-example/ng-switch-example.component';
import { RepeatDirective } from './repeat.directive';
import { MyStyleComponentComponent } from './my-style-component/my-style-component.component';

@Component({
    selector: 'app-root',
    standalone: true,
```

```
imports:
[RouterOutlet,LoginComponent,CommonModule,NgForComponent,NgSwitchExampleComponent
,RepeatDirective,MyStyleComponentComponent],
  templateUrl: './app.component.html',
  styleUrl: './app.component.css'
})
export class AppComponent {
  title = 'loginDemo';
}
```

Step 5: Update the login component.html

```
my-style-component.component.html
<!-- my-style-component.component.html -->

    This paragraph has multiple CSS properties applied using ngStyle.
```

Step 6: Update the app.component.ts

```
app.component.ts
import { Component } from '@angular/core';
import { RouterOutlet } from '@angular/router';
import { LoginComponent } from './login/login.component';
import { CommonModule } from '@angular/common';
import { NgForComponent } from './ng-for/ng-for.component';
            NgSwitchExampleComponent } from './ng-switch-example/ng-switch-
import
        {
example.component';
import { RepeatDirective } from './repeat.directive';
import { MyStyleComponentComponent } from './my-style-component/my-style-
component.component';
@Component({
  selector: 'app-root',
  standalone: true,
[RouterOutlet,LoginComponent,CommonModule,NgForComponent,NgSwitchExampleComponent
,RepeatDirective,MyStyleComponentComponent],
  templateUrl: './app.component.html',
  styleUrl: './app.component.css'
```

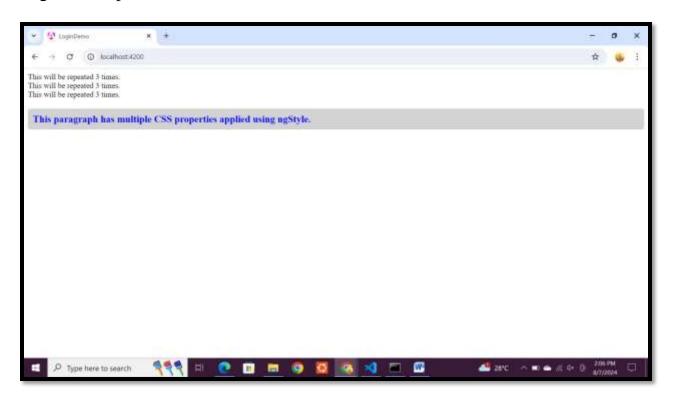
```
})
export class AppComponent {
  title = 'loginDemo';
}
```

Step 7: Update the app.component.html Run the Angular application:

```
app.component.html
<app-my-style-component></app-my-style-component>
```

Step 8: Serve the application

ng serve –open



EXPERIMENT: 3B

Module Name: ngClass

Apply multiple CSS classes to the text using ngClass directive.

Solution:

Step 1: Generate a new component

ng generate component my-class-component

Step 2: Update the my-class-component component

```
my-class-component.ts
import { CommonModule } from '@angular/common';
import { Component } from '@angular/core';
@Component({
  selector: 'app-my-class-component',
 standalone: true,
 imports: [CommonModule],
 templateUrl: './my-class-component.component.html',
  styleUrl: './my-class-component.component.css'
export class MyClassComponentComponent {
 textClasses = {
    'text-red': true,
    'text-bold': true,
    'text-italic': true,
    'text-large': true,
    'text-highlight': true
  };
my-class-component.component.html
<!-- my-class-component.component.html -->
This text has multiple CSS classes applied using ngClass.
my-class-component.css
/* my-class-component.component.css */
text-red {
   color: red;
```

```
.text-bold {
   font-weight: bold;
}

.text-italic {
   font-style: italic;
}

.text-large {
   font-size: 24px;
}

.text-highlight {
   background-color: yellow;
}
```

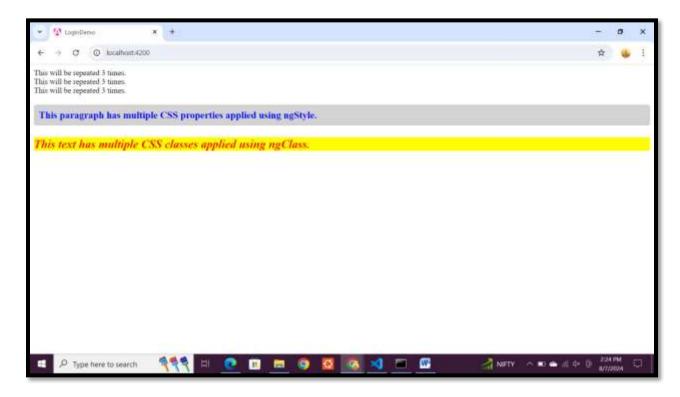
Step 3: Update the app.component.ts

```
app.component.ts
import { Component } from '@angular/core';
import { RouterOutlet } from '@angular/router';
import { LoginComponent } from './login/login.component';
import { CommonModule } from '@angular/common';
import { NgForComponent } from './ng-for/ng-for.component';
import
            NgSwitchExampleComponent } from './ng-switch-example/ng-switch-
        {
example.component';
import { RepeatDirective } from './repeat.directive';
       { MyStyleComponentComponent } from './my-style-component/my-style-
component.component';
            MyClassComponentComponent } from './my-class-component/my-class-
import {
component.component';
@Component({
  selector: 'app-root',
  standalone: true,
                                                                          imports:
[RouterOutlet, LoginComponent, CommonModule, NgForComponent, MyClassComponentComponent] \\
t,NgSwitchExampleComponent,RepeatDirective,MyStyleComponentComponent],
  templateUrl: './app.component.html',
  styleUrl: './app.component.css'
export class AppComponent {
  title = 'loginDemo';
```

Step 4: Update the app.component.html

<app-my-class-component></app-my-class-component>

Step 5: Serve the application Run the application to see your changes: ng serve —open



EXPERIMENT: 3C

Module Name: Custom Attribute Directive

Create an attribute directive called 'showMessage' which should display the given message in a paragraph when a user clicks on it and should change the text color to red.

Solution:

1. Generate the Directive: First, generate a new directive using Angular CLI.

ng generate directive showMessage

2. Implement the Directive

Edit the generated directive file repeat.directive.ts as follows:

```
show-message.directive.ts
// show-message.directive.ts
import { Directive, ElementRef, HostListener, Input, Renderer2 } from
'@angular/core';
@Directive({
  selector: '[appShowMessage]',
  standalone: true
export class ShowMessageDirective {
 @Input('appShowMessage') message: string='';
  constructor(private el: ElementRef, private renderer: Renderer2) {
  @HostListener('click') onClick() {
    const paragraph = this.renderer.createElement('p');
    const text = this.renderer.createText(this.message);
    this.renderer.appendChild(paragraph, text);
    this.renderer.setStyle(paragraph, 'color', 'red');
    this.renderer.appendChild(this.el.nativeElement, paragraph);
```

Update app.component.ts

```
app.component.ts
import { Component } from '@angular/core';
import { RouterOutlet } from '@angular/router';
import { LoginComponent } from './login/login.component';
import { CommonModule } from '@angular/common';
import { NgForComponent } from './ng-for/ng-for.component';
import { NgSwitchExampleComponent } from './ng-switch-example/ng-switch-
example.component';
import { RepeatDirective } from './repeat.directive';
import { MyStyleComponentComponent } from './my-style-component/my-style-
component.component';
import { MyClassComponentComponent } from './my-class-component/my-class-
component.component';
import { ShowMessageDirective } from './show-message.directive';
@Component({
  selector: 'app-root',
  standalone: true,
  imports:
[RouterOutlet, AppComponent, ShowMessageDirective, LoginComponent, CommonModule, NgFor
Component, MyClassComponentComponent, NgSwitchExampleComponent, RepeatDirective, MySt
yleComponentComponent],
  templateUrl: './app.component.html',
  styleUrl: './app.component.css'
export class AppComponent {
  title = 'loginDemo';
```

Update app.component.html

Click me to see the
message

Step 5: Serve the application

Run the application to see your changes:

ng serve -open

