PROGRAM:-01 REG NO:-24251116

**DATE: 18-01-2025** 

AIM:

**1.** Create a simple Angular application that displays "Hello, Angular!" on the screen. Follow the steps below:

- Create a new component named hello-angular.
- Modify the hello-angular component to display the message "Hello, Angular!" using data binding.
- Include the hello-angular component in the AppComponent to display the message in the browser.

\_\_\_\_\_

# Step – 1: Create a new angular application ng new myfirst

Step – 2: Create a new Component ng generate component hello-angular

## Step – 3: Serve the application

ng serve

open your browser and go to <a href="http://localhost:4200/">http://localhost:4200/</a> to see the angular application.

#### index.html

```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Myfirst</title>
<base href="/">
<meta name="viewport" content="width=device-width, initial-scale=1">
link rel="icon" type="image/x-icon" href="favicon.ico">
</head>
<body>
<app-root></app-root>
</body>
</html>
```

### src/app/hello-angular/hello-angular.component.ts

```
import { Component } from '@angular/core';
```

```
@Component({
    selector: 'app-hello-angular',
    imports: [],
    template: '<h1>{{message}}</h1>',
    styleUrl: './hello-angular.component.css'
})
```

```
export class HelloAngularComponent {
  message: string = 'Hello Angular!';
}

src/app/hello-angular/hello-angular.component.html
<h1>{{message}}</h1>

src/app/hello-angular/hello-angular.component.css
h1{
  color: blue;
  text-align: center;
  font-weight: bold;
  font-size: xx-large;
}
```

Hello Angular!

PROGRAM:-02 **REG NO:-24251116** 

DATE: 18-01-2025

AIM:

2. Create an Angular application to demonstrate two-way data binding. The application should allow a user to input text in a textbox, and the text should dynamically update and display below the textbox.

• Create a component named dynamic-binding.

<app-dynamicbinding></app-dynamicbinding>

• In the dynamic-binding component, use [(ngModel)] to bind a variable to the textbox input field and display the variable's value dynamically below the textbox.

```
src\app\dynamicbinding \dynamicbinding.component.html
```

```
<div>
  <h3>Two way data binding </h3>
  <input type="text" [(ngModel)]="userInput" placeholder="Type Something Here....."/>
  Youu typed: {{userInput}}
</div>
src\app\dynamicbinding\dynamicbinding.component.ts
import { Component } from '@angular/core';
@Component({
selector: 'app-dynamicbinding',
standalone: false,
templateUrl: './dynamicbinding.component.html',
styleUrl: './dynamicbinding.component.css'
})
export class DynamicbindingComponent {
userInput: string = ";
}
src\app\app.component
```

# Two way data binding

Type Something Here....

You typed:

# Two way data binding

This is the two-way data bin

You typed: This is the two-way data binding

PROGRAM:-03 REG NO:-24251116

DATE: 18-01-2025

AIM:

- 3. Conditional Rendering with \*ngIf
  - Create an Angular application that displays a button labeled "Toggle Message."
  - When the button is clicked, toggle the visibility of a message "Hello, this is a conditional message!" using the \*ngIf directive.

```
src\app\app.component.html
```

```
<div style="text-align: center; margin-top: 50px;">
 <button (click)="toogleMessage1()">Toogle Message</button>
 Hello, this is a conditional message
</div>
src\app\app.component.css
button {
  margin: 20px;
  padding: 10px 20px;
  font-size: 16px;
 p {
  font-size: 18px;
  color: red;
  font-weight: bold;
  font-family: 'Times New Roman', Times, serif;
src\app\app.component.ts
import { Component } from '@angular/core';
@Component({
 selector: 'app-root',
 templateUrl: './app.component.html',
 standalone: false,
 styleUrl: './app.component.css'
})
export class AppComponent {
 title = 'toogleMessage1';
 isMessageVisible: boolean = false;
 toogleMessage1(){
  this.isMessageVisible = !this.isMessageVisible;
 }}
```

Toogle Message

Toogle Message

Hello, this is a conditional message

PROGRAM:-04 REG NO:-24251116

**DATE: 18-01-2025** 

AIM:

- **4.** Using \*ngFor for Displaying a List
  - Create an Angular application to display a list of student names dynamically.
  - Use the \*ngFor directive to loop through an array of student names and display them as a list in the browser.

Include a button to add a new name to the list.

src/app/student-list/student-list.component.html

### src/app/student-list/student-list.component.css

```
color: #2c3e50;
ul {
 list-style-type: none;
 padding: 0;
}
li {
 background: #ecf0f1;
 margin: 5px 0;
 padding: 10px;
 border-radius: 5px;
input {
 margin-right: 10px;
 border-color: black;
}
button{
 border-color: black;
 font-weight: bold;
 }
```

## src/app/student-list/student-list.component.ts

```
import { Component } from '@angular/core';
@Component({
 selector: 'app-student-list',
 standalone: false,
 templateUrl: './student-list.component.html',
 styleUrl: './student-list.component.css'
})
export class StudentListComponent {
 students: string[] = ['Rahul', 'Carol', 'Brian'];
 newStudent: string = ";
 addStudent(){
  if(this.newStudent.trim()){
   this.students.push(this.newStudent.trim());
   this.newStudent = ";
  }
 }
src/app/app.component.html
<app-student-list></app-student-list>
```

# **Student list**

Rahul, Carol, Brian

Rahul, Carol, Brian

Rahul, Carol, Brian

Enter a new student name

Add Student

# **Student list**

Rahul, Carol, Brian

Rahul, Carol, Brian

Rahul, Carol, Brian

Rahul, Carol, Brian, Ashith

Enter a new student name

Add Student

PROGRAM:-05 REG NO:-24251116

**DATE: 18-01-2025** 

AIM:

**5.** Program Title: Displaying Day of the Week Using \*ngSwitch Create an Angular application that displays the name of the day based on a number input (1 to 7).

```
src/app/day-display/day-display.component.html
<div>
  <h2>Enter a number (1-7) to get the day of the week</h2>
  <input type="number" [(ngModel)]="dayNumber" min="1" max="7"/>
  <div [ngSwitch]="dayNumber">
    <div *ngSwitchCase="1">Monday</div>
    <div *ngSwitchCase="2">Tuesday</div>
    <div *ngSwitchCase="3">Wednesday</div>
    <div *ngSwitchCase="4">Thursday</div>
    <div *ngSwitchCase="5">Friday</div>
    <div *ngSwitchCase="6">Saturday</div>
    <div *ngSwitchCase="7">Sunday</div>
    <div *ngSwitchDefault>Please enter a number between 1 to 7</div>
  </div>
</div>
src/app/day-display/day-display.component.ts
import { Component } from '@angular/core';
@Component({
 selector: 'app-day-display',
 standalone: false,
 templateUrl: './day-display.component.html',
 styleUrl: './day-display.component.css'
export class DayDisplayComponent {
 dayNumber: number = 1;
}
src/app/app.component.html
<h1>Day of the week Dispaly</h1>
```

<app-day-display></app-day-display>

# Day of the week Dispaly

Enter a number (1-7) to get the day of the week



Please enter a number between 1 to 7

# Day of the week Dispaly

Enter a number (1-7) to get the day of the week



PROGRAM:-06 REG NO:-24251116

**DATE: 18-01-2025** 

AIM:

**6.** Develop an Angular program to create a simple to-do list application. Allow users to add, edit, and delete tasks. Note: The default values for tasks may be included in the program.

## src/app/todo/todo.component.html

#### src/app/todo/todo.component.ts

```
import { Component } from '@angular/core';
import { Task } from './task.model';
import { title } from 'process';

@Component({
    selector: 'app-todo',
    standalone: false,
```

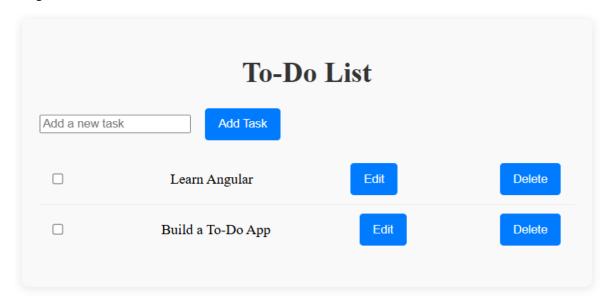
```
templateUrl: './todo.component.html',
 styleUrl: './todo.component.css'
})
export class TodoComponent {
 tasks: Task[]=[
  {id: 1, title: 'Learn Angular', completed:false},
  {id: 2, title: 'Build a To-Do App', completed: false},
 ];
 newTaskTitle: string =";
 editTaskId: number | null = null;
 addTask(){
  if(this.newTaskTitle.trim()){
  const newTask: Task ={
     id: this.tasks.length+1,
     title:this.newTaskTitle,
     completed:false,
    };
   this.tasks.push(newTask);
   this.newTaskTitle = ";
 editTask(task: Task){
  this.editTaskId = task.id;
  this.newTaskTitle=task.title;
 }
 updateTask(){
  if(this.editTaskId!=null){
   const task = this.tasks.find(t=>t.id == this.editTaskId);
   if(task){
     task.title = this.newTaskTitle;
     this.newTaskTitle=";
```

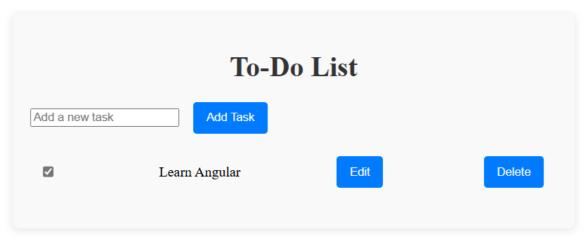
```
this.editTaskId=null;
}

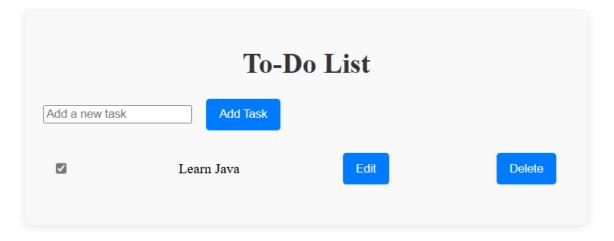
deleteTask(taskId: number){
   this.tasks = this.tasks.filter(task => task.id!=taskId);
}

toogleCompletion(task: Task){
   task.completed = !task.completed;
}

src/app/app.component.html
<app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></app-todo></a>
```







PROGRAM:-07 **REG NO:-24251116** 

DATE: 18-01-2025

AIM:

- 7. Angular Pipes
  - Create Angular application to convert student details to Uppercase using angular filters. Note: The default details of students may be included in the program.
  - Create an Angular application that displays the date by using date filter parameters.

```
src/app/date-display/date-display.component.html
<h2>Current Date</h2>
Default Format: {{ currentDate | date }}
Short Date: {{ currentDate | date: 'shortDate' }}
Medium Date: {{ currentDate | date:'mediumDate' }}
Long Date: {{ currentDate | date: 'longDate' }}
Custom Format: {{ currentDate | date: 'yyyy-MM-dd HH:mm:ss' }}
src/app/date-display/date-display.component.css
h2 {
  color: #007bff;
  margin-top: 20px;
 }
 p {
  background: #fff;
  margin: 10px 0;
  padding: 10px;
  border-radius: 5px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
 }
src/app/date-display/date-display.component.ts
import { Component } from '@angular/core';
@Component({
 selector: 'app-date-display',
 standalone: false,
 templateUrl: './date-display.component.html',
 styleUrl: './date-display.component.css'
export class DateDisplayComponent {
 currentDate: Date = new Date();
}
```

#### src/app/student-details/student-details.component.html

```
<h2>Student Details</h2>
\langle ul \rangle
```

```
Name: {{ student.name | uppercase }} | Age: {{ student.age }} | Course: {{ student.course |
uppercase }}
 </11/>
src/app/student-details/student-details.component.css
h2 {
  color: #007bff;
  margin-top: 20px;
 ul {
  list-style-type: none;
  padding: 0;
 }
 li {
  background: #fff;
  margin: 10px 0;
  padding: 10px;
  border-radius: 5px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
src/app/student-details/student-details.component.ts
import { Component } from '@angular/core';
@Component({
 selector: 'app-student-details',
 standalone: false,
 templateUrl: './student-details.component.html',
 styleUrl: './student-details.component.css'
})
export class StudentDetailsComponent {
 students = [
  { name: 'Rahul', age:'25', course:'Msc'},
  { name: 'Carol', age: '23', course: 'MCA'},
  { name: 'Brian', age: '20', course: 'MBA'}
 ];}
src/app/app.component.html
<h1>Student Details Application</h1>
<app-student-details></app-student-details>
<app-date-display></app-date-display>
```

# **Student Details Application**

## **Student Details**

Name: RAHUL | Age: 25 | Course: MSC

Name: CAROL | Age: 23 | Course: MCA

Name: BRIAN | Age: 20 | Course: MBA

### **Current Date**

Default Format: Jan 2, 2025

Short Date: 1/2/25

Medium Date: Jan 2, 2025

Long Date: January 2, 2025

Custom Format: 2025-01-02 00:10:05