**Beginner Level Set 1**

**⭐ Structural Directives**

1. **\*ngFor**
   * Display a list of 5 favorite fruits using \*ngFor.
   * Show the index along with each fruit name (like 1. Apple, 2. Mango, etc.).
2. **\*ngIf**
   * Create a button "Show Message". When clicked, display "Hello Angular!" using \*ngIf.
   * Add an else case to display "Message is hidden" when not shown.
3. **\*ngSwitch**
   * Create a dropdown with values "Red", "Green", "Blue".
   * Based on the selected color, display a message like "You selected Red" using \*ngSwitch.

**⭐ Attribute Directives**

1. **ngStyle**
   * Create a paragraph and change its text color to "red" if a variable isError = true, otherwise "green".
   * Add a button to toggle isError.
2. **ngClass**
   * Create two CSS classes: .success { color: green } and .error { color: red }.
   * Bind a paragraph to use ngClass so that it changes class based on a boolean variable.
3. **ngModel**
   * Create a textbox bound with ngModel.
   * As the user types in the textbox, display the typed text below it in real-time.

**Set 2**

## 🔹 Structural Directives

### ****1.**** \*ngIf

👉 Activity: Create a simple login system.

* Show **“Welcome, User”** only when logged in.
* If not logged in, display **“Please login”** using <ng-template>.
* Add one more condition: If user is an **Admin**, show **“Welcome, Admin!”**.

### ****2.**** \*ngFor

👉 Activity: Create a student list.

* Display a list of student names.
* Show their **roll number (index + 1)**.
* If the student’s roll number is even → add a class "highlight".
* Try adding one **nested list** inside each student (for example: list of subjects).

### ****3.**** \*ngSwitch

👉 Activity: Create a traffic light system.

* Take a variable signal with values "red", "yellow", "green".
* Show messages:
  + **Stop** (if red)
  + **Ready** (if yellow)
  + **Go** (if green)
* Add one **default case**: “Signal not working”.

## 🔹 Attribute Directives

### ****4.**** ngStyle

👉 Activity: Create a dynamic font size changer.

* Add two buttons: **Increase Font** and **Decrease Font**.
* Change font size of a paragraph dynamically with ngStyle.
* Bonus: If size > 30px, make it **red**; if < 10px, make it **blue**.

### ****5.**** ngClass

👉 Activity: Task status tracker.

* Have a list of tasks with a property isCompleted.
* If isCompleted = true → apply "completed" class (green + strike).
* If false → apply "pending" class (red).
* Add a button **Mark as Complete** to change the status dynamically.

### ****6.**** ngModel

👉 Activity: Build a live form preview.

* Take inputs: Name, Email, and Age using [(ngModel)].
* Below the form, show live preview:
  + **“Hello, [Name], you are [Age] years old. Your email is [Email]”**
* Bonus: If Age < 18, show warning: **“You are under 18!”**