


## Angular 18 Practical Assignment


### 1. Create a new Angular 18 project using the CLI

- a.  *Scenario:* You just joined a company and are asked to build a new internal web portal from scratch.


### 2. Generate a component named `navbar` and add it to the `AppComponent`

-  *Scenario:* You're building a blog site and need a navigation bar with links like Home, About, and Contact.

### 3. Use interpolation to show user details (name, age)

-  *Scenario:* Display a user's profile on their dashboard with dynamic values.

### 4. Bind input using `[(ngModel)]` and display value live

-  *Scenario:* As a user types their name in a form, it shows live below.

### 5. Create a list of employees using `*ngFor` and display them in a table

-  *Scenario:* HR needs to see a list of employees in tabular form.

### 6. Conditionally display a message using `*ngIf` based on login status

-  *Scenario:* Show “Welcome back” only if the user is logged in.


### 7. Toggle visibility of a section using a button

-  *Scenario:* Show or hide detailed terms and conditions on a form.

### 8. Create a click event that increments a counter

-  *Scenario:* A quiz app tracks how many questions you've answered.

**9. Style a button with `ngClass` and `ngStyle`**

 *Scenario:* Change button color based on form validity.


**10. Build a basic two-way binding form**

 *Scenario:* Update a user profile form where input updates live.

**11. Add Bootstrap and use its classes inside Angular components**

 *Scenario:* Use Bootstrap to quickly design a responsive login page.

**12. Display today's date using Angular's `date` pipe**

 *Scenario:* Show the current date in a news article.

**13. Transform text to uppercase using Angular's `uppercase` pipe**

 *Scenario:* Display a username in all caps in a badge.


**14. Create a `titleCase` custom pipe**

 *Scenario:* Convert blog post titles to title case for display.

**15. Show image gallery from a URL array**

 *Scenario:* A travel site displays places as image cards.

**16. Use `trackBy` in `*ngFor` for performance**

 *Scenario:* An admin panel updates a user list frequently.

**17. Use `ngSwitch` to show different messages based on user role**

 *Scenario:* Show different dashboards for admin, editor, and viewer.

**18. Add a hover effect using custom directive**

 *Scenario:* Highlight a product card when hovered.


**19. Create a simple reusable button component**

 *Scenario:* Your app uses similar buttons in many places with different labels.


**20. Display error message if form input is empty**

 *Scenario:* Prevent form submission if fields are left blank.

**21. Setup reactive form and validate name/email**

 *Scenario:* A signup form should ensure email is valid and name isn't empty.

**22. Create a simple UserService that provides user list**

 *Scenario:* Load user data from a service instead of hardcoding.


**23. Inject a service into a component**

 *Scenario:* Access user data inside a profile component.

**24. Load static data into dropdown menu**

 *Scenario:* Show a list of countries in a select input.

**25. Navigate between home and about components using router**

 *Scenario:* Click links in the navbar to load different views.