Angular Interview Prep - Key Concepts

@Input()

@Input() allows a parent component to bind values to a child component.

Example:

Child: @Input() userName: string;

Parent: <child-comp [userName]="'Ajay'">

@Output()

@Output() allows a child component to send events/data to a parent component using EventEmitter.

Example:

```
Child: @Output() notify = new EventEmitter<string>();
```

Parent: <child-comp (notify)="onNotify(\$event)">

@for (Angular 17+)

```
New syntax to iterate lists in Angular 17+. Cleaner and more efficient.
```

```
@for (item of items; track item.id) {
    <div>{{ item }}</div>
}
```

@if (Angular 17+)

```
New conditional rendering block in Angular 17+.
```

```
@if (isLoggedIn) {
  Welcome
}
```

@switch (Angular 17+)

Control flow for switching conditions.

```
@switch (role) {
  @case ('admin') { Admin }
  @default { Guest }
}
```

*ngFor

Used to loop through data in templates.

```
<div *ngFor="let item of items">{{ item }}</div>
```

*nglf

Conditional rendering in templates.

```
<div *ngIf="isLoggedIn">Welcome</div>
```

Angular Interview Prep - Key Concepts

[ngSwitch] & [ngSwitchCase]

```
Used for conditionally displaying views.

<div [ngSwitch]="role">

<div *ngSwitchCase="'admin'">Admin Panel</div>

<div *ngSwitchDefault>Guest</div>

</div>
```

ng-template

Defines a template that is not rendered until used. <ng-template #tpl>Hello</ng-template>

ng-container

Used as a grouping element without rendering extra DOM.

[ngClass]

Adds/removes classes conditionally. <div [ngClass]="{'active': isActive}">Box</div>

[ngStyle]

Applies inline styles conditionally.

<div [ngStyle]="{'color': isError ? 'red' : 'green'}">Status</div>