

**Q:** What is Angular?

**A:** A TypeScript-based framework for building SPAs.

**Q:** What is a component?

**A:** A UI building block with HTML, TS, CSS.

**Q:** What is a module?

**A:** A container that groups components and services.

**Q:** What is data binding?

**A:** Binding data between TS and template.

**Q:** Types of data binding?

**A:** Interpolation, Property, Event, Two-way.

**Q:** What is interpolation?

**A:** {{ }} used to display data.

**Q:** What is a directive?

**A:** A class that modifies DOM behavior.

**Q:** Types of directives?

**A:** Component, Structural, Attribute.

**Q:** What is \*ngIf?

**A:** Structural directive to show/hide elements.

**Q:** What is \*ngFor?

**A:** Repeats an element for each item.

**Q:** What is a service?

**A:** Reusable logic shared across components.

**Q:** What is dependency injection?

**A:** Injecting services into components.

**Q:** What is a pipe?

**A:** Transforms data in templates.

**Q:** What is routing?

**A:** Navigation between views.

**Q:** What is router-outlet?

**A:** Placeholder for routed components.

**Q:** What is HttpClient?

**A:** Service for API calls.

**Q:** What is lifecycle hook?

**A:** Methods called during component life.

**Q:** ngOnInit purpose?

**A:** Runs after component initialization.

**Q:** What is Angular CLI?

**A:** Tool to generate and manage Angular apps.

**Q:** What is package.json?

**A:** Lists project dependencies.

**Q:** What is TypeScript?

**A:** JS superset adding strong typing.

**Q:** What is SPA?

**A:** Single Page Application.

**Q:** What is Lazy Loading?

**A:** Loading modules only when needed.

**Q:** What is Guards?

**A:** Controls route access.

**Q:** Types of guards?

**A:** CanActivate, CanDeactivate, Resolve.

**Q:** What is RxJS?

**A:** Library for reactive programming.

**Q:** What is Observable?

**A:** Stream of async data.

**Q:** Subject vs BehaviorSubject?

**A:** BehaviorSubject stores latest value.

**Q:** What is async pipe?

**A:** Auto-subscribes to observables.

**Q:** What is template-driven form?

**A:** Simple form using ngModel.

**Q:** What is reactive form?

**A:** Form built using FormGroup.

**Q:** Validators in Angular?

**A:** Required, minLength, maxLength.

**Q:** What is change detection?

**A:** Updates UI when data changes.

**Q:** What is zone.js?

**A:** Handles async operations for Angular.

**Q:** What is AOT?

**A:** Ahead of Time compilation.

**Q:** What is JIT?

**A:** Just In Time compilation.

**Q:** What is ViewChild?

**A:** Access child component/template.

**Q:** What is ng-content?

**A:** Used for content projection.

**Q:** What is module federation?

**A:** Sharing modules across apps.

**Q:** What is standalone component?

**A:** Component without NgModule.

**Q:** What is signal?

**A:** Reactive primitive in Angular.

**Q:** What is server-side rendering?

**A:** Rendering Angular on server.

**Q:** What is hydration?

**A:** Reusing server-rendered HTML.

**Q:** What is build optimizer?

**A:** Optimizes production build.

**Q:** What is ivy?

**A:** Angular's rendering engine.

**Q:** What is event binding?

**A:** Listening to user actions.

**Q:** What is property binding?

**A:** Binding TS values to HTML.

**Q:** What is trackBy?

**A:** Optimizes ngFor performance.

**Q:** What is environment.ts?

**A:** Stores app environment settings.

**Q:** What is polyfill?

**A:** Backwards compatibility code.