```
#### 1. What command is used to create a new Angular project?
- A) 'ng generate'
- B) 'ng new'
- C) 'ng create'
- D) 'ng start'
- **Answer:** B) `ng new`
#### 2. How can you generate a new component in Angular using CLI?
- A) 'ng generate component < component-name>'
- B) 'ng add component < component-name>'
- C) 'ng create component < component-name>'
- D) 'ng new component < component-name>'
- **Answer:** A) `ng generate component <component-name>`
#### 3. Which decorator is used to define a component in Angular?
- A) `@NgModule`
- B) '@Component'
- C) `@Injectable`
- D) `@Directive`
- **Answer: ** B) `@Component`
#### 4. What is the purpose of the 'ngOnInit' lifecycle hook?
- A) To initialize component styles
- B) To initialize component templates
- C) To perform component initialization logic after Angular has set input properties
- D) To destroy the component
- **Answer:** C) To perform component initialization logic after Angular has set input properties
```

5. How do you bind a property from the component to the template in Angular?

```
- A) `{{property}}`
- B) `[property]="value"`
- C) `[(property)]="value"`
- D) `@property="value"`
- **Answer:** A) `{{property}}`
#### 6. Which of the following is used for two-way data binding in Angular?
- A) `{{property}}`
- B) `[property]="value"`
- C) `[(ngModel)]="value"`
- D) `@property="value"`
- **Answer:** C) `[(ngModel)]="value"`
#### 7. What is the correct syntax for event binding in Angular?
- A) `(event)="function"`
- B) `[event]="function"`
- C) `{{event}}="function"`
- D) `@event="function"`
- **Answer:** A) `(event)="function"`
#### 8. Which command is used to run an Angular application locally?
- A) `ng run`
- B) 'ng serve'
- C) `ng start`
- D) 'ng launch'
- **Answer:** B) `ng serve`
#### 9. In Angular, how can you create a service?
- A) `ng create service <service-name>`
- B) `ng add service <service-name>`
```

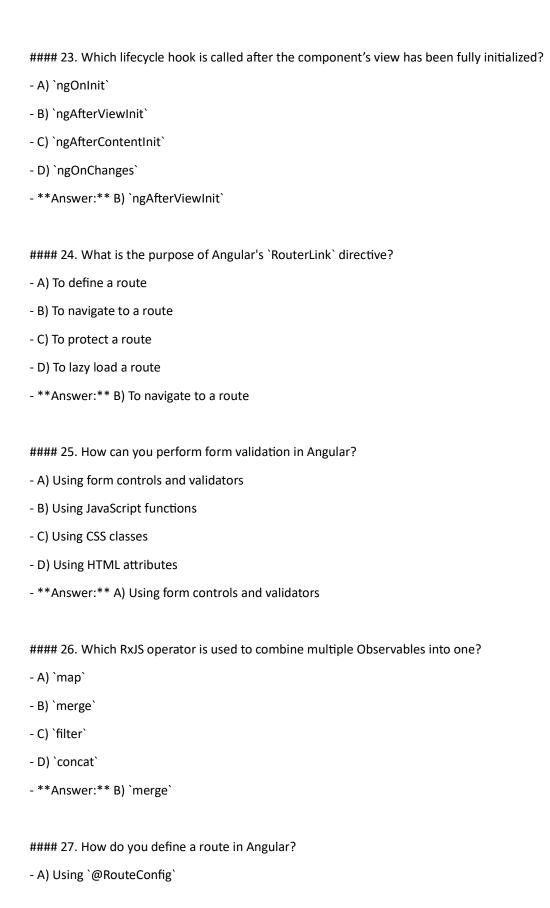
- C) `ng new service <service-name>`

```
- D) 'ng generate service <service-name>'
- **Answer:** D) `ng generate service <service-name>`
#### 10. Which Angular directive is used to display a list of items?
- A) `*ngFor`
- B) `*ngIf`
- C) `*ngList`
- D) `*ngEach`
- **Answer: ** A) `*ngFor`
#### 11. How can you conditionally display elements in Angular?
- A) `*ngFor`
- B) `*ngIf`
- C) `*ngShow`
- D) `*ngDisplay`
- **Answer:** B) `*ngIf`
#### 12. What is Angular's default change detection strategy?
- A) 'OnPush'
- B) 'Default'
- C) `Manual`
- D) `Async`
- **Answer:** B) `Default`
#### 13. How can you catch and handle errors in Angular services?
- A) Using `try-catch` blocks
- B) Using `errorHandler`
- C) Using `catchError` operator in RxJS
- D) Using `onError` method
- **Answer:** C) Using `catchError` operator in RxJS
```

```
#### 14. Which method in Angular's HttpClient is used to send a GET request?
- A) `httpGet()`
- B) `fetch()`
- C) `get()`
- D) `request()`
- **Answer:** C) `get()`
#### 15. What is the purpose of Angular's `NgModule` decorator?
- A) To define a component
- B) To define a directive
- C) To define an Angular module
- D) To define a service
- **Answer:** C) To define an Angular module
#### 16. What is the correct way to include a third-party library in an Angular project?
- A) Use `npm install <library>`
- B) Add the library URL to the index.html
- C) Use `ng add <library>`
- D) Import the library in `app.module.ts`
- **Answer:** A) Use `npm install <library>`
#### 17. Which Angular module is commonly used for routing?
- A) `HttpClientModule`
- B) `FormsModule`
- C) `RouterModule`
- D) `CommonModule`
- **Answer:** C) `RouterModule`
#### 18. How do you import a module into an Angular application?
- A) `@NgModule`
- B) '@Module'
```

```
- C) `import { ModuleName } from 'module-path';`
- D) 'import { ModuleName } from 'angular-core';'
- **Answer: ** C) `import { ModuleName } from 'module-path';`
#### 19. What command is used to build an Angular project for production?
- A) 'ng build --prod'
- B) 'ng build'
- C) 'ng production'
- D) 'ng deploy'
- **Answer:** A) `ng build --prod`
#### 20. Which operator in RxJS is used to transform the items emitted by an Observable?
- A) `map`
- B) `filter`
- C) `catchError`
- D) 'debounce'
- **Answer:** A) `map`
#### 21. How can you subscribe to an Observable in Angular?
- A) `observable.subscribe()`
- B) `observable.listen()`
- C) `observable.observe()`
- D) `observable.watch()`
- **Answer:** A) `observable.subscribe()`
#### 22. What is the role of the `@Input` decorator in Angular?
- A) To pass data from parent to child components
- B) To pass data from child to parent components
- C) To bind an event in a component
- D) To create a service
```

- **Answer:** A) To pass data from parent to child components



- B) Using `RouteModule`- C) Using `RouterModule.forRoot()`- D) Using `@RouterConfig`
- **Answer:** C) Using `RouterModule.forRoot()`

28. What is Angular's `FormBuilder` used for?

- A) To create form controls and form groups
- B) To validate forms
- C) To submit forms
- D) To reset forms
- **Answer: ** A) To create form controls and form groups

29. How do you access a child component's methods from a parent component?

- A) Using `@Output` decorator
- B) Using `@ViewChild` decorator
- C) Using `@Input` decorator
- D) Using `@Injectable` decorator
- **Answer:** B) Using `@ViewChild` decorator

30. Which Angular service is used for making HTTP requests?

- A) `Http`
- B) `HttpClient`
- C) `HttpService`
- D) `HttpRequest`
- **Answer:** B) `HttpClient`

31. What is Angular's `async` pipe used for?

- A) To handle asynchronous operations in templates
- B) To transform data
- C) To format dates
- D) To handle errors

- **Answer: ** A) To handle asynchronous operations in templates #### 32. Which Angular CLI command is used to update Angular and its dependencies? - A) 'ng update' - B) 'ng upgrade' - C) 'ng install' - D) 'ng new' - **Answer: ** A) `ng update` #### 33. How can you protect a route in Angular? - A) Using `CanActivate` guard - B) Using `CanDeactivate` guard - C) Using `Resolve` guard - D) Using `RouteGuard` - **Answer:** A) Using `CanActivate` guard #### 34. What is the purpose of Angular's 'Injector'? - A) To manage dependency injection - B) To manage component lifecycle - C) To manage routing - D) To manage state

- **Answer:** A) To manage dependency injection

- A) Using `@Directive` decorator

- C) Using `@Pipe` decorator

- B) Using `@Component` decorator

- D) Using `@NgModule` decorator

- **Answer: ** A) Using `@Directive` decorator

35. How do you create a custom directive in Angular?

```
#### 36. What is the correct way to unsubscribe from an Observable?
- A) `observable.unsubscribe()`
- B) `subscription.unsubscribe()`
- C) `observer.unsubscribe()`
- D) `subject.unsubscribe()`
- **Answer:** B) `subscription.unsubscribe()`
#### 37. How can you share data between sibling components in Angular?
- A) Using a shared service
- B) Using `@Input` decorator
- C) Using `@Output` decorator
- D) Using `@ViewChild` decorator
- **Answer: ** A) Using a shared service
#### 38. What is Angular's `HttpInterceptor` used for?
- A) To handle HTTP errors
- B) To transform HTTP requests and responses
- C) To cache HTTP responses
- D) To retry failed HTTP requests
- **Answer:** B) To transform HTTP requests and responses
#### 39. Which command is used to test an Angular application?
- A) 'ng test'
- B) 'ng serve'
- C) 'ng build'
- D) 'ng run'
- **Answer:** A) `ng test`
#### 40. How do you create a custom pipe in Angular?
```

- A) Using `@Pipe` decorator

- B) Using `@Component` decorator
- C) Using `@Directive` decorator
- D) Using `@NgModule` decorator
- **Answer:** A) Using `@Pipe` decorator

41. What is the role of Angular's 'NgZone' service?

- A) To manage change detection
- B) To manage routing
- C) To manage HTTP requests
- D) To manage state
- **Answer:** A) To manage change detection

42. How can you optimize change detection in Angular?

- A) Using `OnPush` change detection strategy
- B) Using `Default` change detection strategy
- C) Using `Manual` change detection strategy
- D) Using `Async` change detection strategy
- **Answer:** A) Using `OnPush` change detection strategy

43. What is the purpose of Angular's `ElementRef`?

- A) To access the DOM element
- B) To manage component state
- C) To manage routing
- D) To manage HTTP requests
- **Answer:** A) To access the DOM element

44. How do you enable lazy loading in Angular?

- A) Using `loadChildren` in route configuration
- B) Using `loadComponent` in route configuration
- C) Using `loadModule` in route configuration
- D) Using `lazyLoad` in route configuration

- **Answer: ** A) Using `loadChildren` in route configuration #### 45. How can you handle errors globally in Angular? - A) Using `ErrorHandler` class - B) Using `catchError` operator - C) Using `try-catch` blocks - D) Using `onError` method - **Answer:** A) Using `ErrorHandler` class #### 46. Which Angular directive is used to dynamically add or remove DOM elements? - A) `*ngIf` - B) `*ngFor` - C) `*ngSwitch` - D) `*ngClass` - **Answer: ** A) `*ngIf` #### 47. How do you update the state in Angular's 'OnPush' change detection strategy? - A) By changing the reference of the object - B) By modifying the object directly - C) By using `setState` - D) By using `updateState` - **Answer: ** A) By changing the reference of the object #### 48. What is Angular's `Renderer2` used for? - A) To safely manipulate the DOM - B) To manage component state - C) To manage HTTP requests - D) To manage routing - **Answer: ** A) To safely manipulate the DOM

49. How can you create a reactive form in Angular?

- A) Using `FormBuilder`
- B) Using `FormControl`
- C) Using `FormGroup`
- D) All of the above
- **Answer:** D) All of the above

50. How do you define a child route in Angular?

- A) Using `children` property in route configuration
- B) Using `childRoutes` property in route configuration
- C) Using `subRoutes` property in route configuration
- D) Using `nestedRoutes` property in route configuration
- **Answer:** A) Using `children` property in route configuration

51. Which Angular module is required for form handling?

- A) `FormsModule`
- B) `HttpClientModule`
- C) `RouterModule`
- D) `CommonModule`
- **Answer: ** A) `FormsModule`

52. How do you handle asynchronous operations in Angular templates?

- A) Using `async` pipe
- B) Using `sync` pipe
- C) Using `asyncAwait` pipe
- D) Using `promise` pipe
- **Answer: ** A) Using `async` pipe

53. What is the purpose of Angular's 'ngClass' directive?

- A) To conditionally add or remove CSS classes
- B) To conditionally add or remove HTML elements
- C) To dynamically change the element's content

- D) To bind data to the template
- **Answer:** A) To conditionally add or remove CSS classes

54. How can you pass data from a child component to a parent component?

- A) Using `@Output` decorator and `EventEmitter`
- B) Using `@Input` decorator
- C) Using `@ViewChild` decorator
- D) Using `@Child` decorator
- **Answer: ** A) Using `@Output` decorator and `EventEmitter`

55. Which Angular directive is used for structural changes in the DOM?

- A) `*ngIf`
- B) 'ngStyle'
- C) 'ngClass'
- D) 'ngBind'
- **Answer:** A) `*ngIf`

56. How can you implement pagination in an Angular application?

- A) Using `*ngFor` with slice pipe
- B) Using `*ngIf`
- C) Using 'ngClass'
- D) Using `ngSwitch`
- **Answer:** A) Using `*ngFor` with slice pipe

57. What is Angular's `TemplateRef` used for?

- A) To reference a template
- B) To reference a component
- C) To reference a directive
- D) To reference a service
- **Answer:** A) To reference a template

58. Which Angular directive is used for dynamic style binding?

- A) 'ngStyle'
- B) 'ngClass'
- C) `ngBind`
- D) `ngSwitch`
- **Answer: ** A) `ngStyle`

59. How can you prefetch data before navigating to a route in Angular?

- A) Using `Resolve` guard
- B) Using `CanActivate` guard
- C) Using `CanDeactivate` guard
- D) Using `Prefetch` guard
- **Answer:** A) Using `Resolve` guard

60. What is the purpose of Angular's `ng-content`?

- A) To project content into a component
- B) To bind data to the template
- C) To conditionally add or remove CSS classes
- D) To dynamically change the element's content
- **Answer:** A) To project content into a component

61. How do you enable Angular Material in a project?

- A) Using `ng add @angular/material`
- B) Using `ng install @angular/material`
- C) Using `ng generate @angular/material`
- D) Using `ng build @angular/material`
- **Answer:** A) Using `ng add @angular/material`

62. How do you implement route guards in Angular?

- A) By creating a service that implements `CanActivate` or `CanDeactivate` interfaces
- B) By creating a component that implements `CanActivate` or `CanDeactivate` interfaces

- C) By creating a directive that implements `CanActivate` or `CanDeactivate` interfaces
- D) By creating a pipe that implements `CanActivate` or `CanDeactivate` interfaces
- **Answer:** A) By creating a service that implements `CanActivate` or `CanDeactivate` interfaces

63. What is Angular's `ViewContainerRef` used for?

- A) To create and insert views dynamically
- B) To access the component's view
- C) To access the component's template
- D) To access the component's styles
- **Answer:** A) To create and insert views dynamically

64. Which Angular lifecycle hook is called when the component is destroyed?

- A) 'ngOnDestroy'
- B) `ngAfterViewInit`

_

- C) `ngAfterContentInit`
- D) 'ngOnChanges'
- **Answer:** A) `ngOnDestroy`

65. How can you update the URL in Angular without reloading the page?

- A) Using `Location` service
- B) Using `Router` service
- C) Using `HttpClient` service
- D) Using `ActivatedRoute` service
- **Answer:** B) Using `Router` service

66. What is the purpose of Angular's `RendererFactory2`?

- A) To create a Renderer2 instance
- B) To create a ViewContainerRef instance
- C) To create a TemplateRef instance

- D) To create a ChangeDetectorRef instance
- **Answer:** A) To create a Renderer2 instance

67. How do you handle form submission in Angular?

- A) Using `ngSubmit` directive
- B) Using `ngForm` directive
- C) Using `ngModel` directive
- D) Using `ngControl` directive
- **Answer:** A) Using `ngSubmit` directive

68. Which Angular module provides support for reactive forms?

- A) `ReactiveFormsModule`
- B) `FormsModule`
- C) `HttpClientModule`
- D) `RouterModule`
- **Answer:** A) `ReactiveFormsModule`

69. How can you track changes in a list of items in Angular?

- A) Using `trackBy` function in `*ngFor`
- B) Using `*ngIf`
- C) Using 'ngClass'
- D) Using 'ngStyle'
- **Answer:** A) Using `trackBy` function in `*ngFor`

70. What is the purpose of Angular's `ChangeDetectorRef`?

- A) To control change detection
- B) To control routing
- C) To control HTTP requests
- D) To control state management
- **Answer:** A) To control change detection

```
#### 71. How can you implement internationalization (i18n) in Angular?
- A) Using Angular's i18n tools and libraries
- B) Using third-party i18n libraries
- C) Using custom i18n services
- D) All of the above
- **Answer:** D) All of the above
#### 72. Which Angular directive is used to dynamically switch between templates?
- A) `*ngIf`
- B) 'ngClass'
- C) 'ngStyle'
- D) `*ngSwitch`
- **Answer:** D) `*ngSwitch`
#### 73. How do you create a dynamic component in Angular?
- A) Using `ComponentFactoryResolver`
- B) Using 'NgModule'
- C) Using `@Directive`
- D) Using `Renderer2`
- **Answer:** A) Using `ComponentFactoryResolver`
#### 74. What is the purpose of Angular's 'Injector'?
- A) To provide dependency injection
- B) To manage change detection
- C) To manage routing
- D) To manage HTTP requests
- **Answer:** A) To provide dependency injection
```

75. How can you debounce user input in Angular?

- A) Using RxJS `debounceTime` operator

- B) Using `setTimeout`

```
- C) Using 'Promise'
- D) Using 'async' pipe
- **Answer:** A) Using RxJS `debounceTime` operator
#### 76. What is Angular's `@ViewChildren` decorator used for?
- A) To query multiple child elements or directives
- B) To query a single child element or directive
- C) To query parent elements
- D) To query sibling elements
- **Answer:** A) To query multiple child elements or directives
#### 77. How can you detect changes manually in Angular?
- A) Using `ChangeDetectorRef.detectChanges()`
- B) Using `NgZone.run()`
- C) Using `ApplicationRef.tick()`
- D) All of the above
- **Answer:** D) All of the above
#### 78. What is Angular's `@HostBinding` decorator used for?
- A) To bind a property to a host element
- B) To bind an event to a host element
- C) To bind a class to a host element
- D) To bind a style to a host element
- **Answer:** A) To bind a property to a host element
#### 79. Which Angular directive is used for dynamically applying CSS styles?
- A) 'ngStyle'
- B) 'ngClass'
- C) 'ngBind'
- D) 'ngSwitch'
- **Answer:** A) `ngStyle`
```

80. How can you pass data to a service in Angular?

- A) Using service methods
- B) Using `@Input` decorator
- C) Using `@Output` decorator
- D) Using `@ViewChild` decorator
- **Answer:** A) Using service methods

81. What is Angular's `@ContentChild` decorator used for?

- A) To query a projected content child element
- B) To query a projected content parent element
- C) To query a projected content sibling element
- D) To query a projected content host element
- **Answer:** A) To query a projected content child element

82. How can you configure multiple environments in Angular?

- A) Using `angular.json` file
- B) Using `environment.ts` files
- C) Using `app.module.ts` file
- D) Using `main.ts` file
- **Answer:** B) Using `environment.ts` files

83. How can you create a singleton service in Angular?

- A) By providing the service in the `root` injector
- B) By providing the service in the `AppModule`
- C) By providing the service in the `NgModule`
- D) All of the above
- **Answer: ** A) By providing the service in the `root` injector

84. What is the purpose of Angular's `@ContentChildren` decorator?

- A) To query multiple projected content child elements

- B) To query a single projected content child element
- C) To query multiple projected content parent elements
- D) To query multiple projected content sibling elements
- **Answer:** A) To query multiple projected content child elements

85. How can you handle animations in Angular?

- A) Using Angular's animation library
- B) Using CSS animations
- C) Using JavaScript animations
- D) All of the above
- **Answer:** D) All of the above

86. What is Angular's `BrowserAnimationsModule` used for?

- A) To enable animations in Angular applications
- B) To enable routing in Angular applications
- C) To enable HTTP requests in Angular applications
- D) To enable forms in Angular applications
- **Answer:** A) To enable animations in Angular applications

87. How can you optimize an Angular application for production?

- A) Using Angular CLI 'ng build --prod'
- B) Using Angular CLI `ng serve --prod`
- C) Using Angular CLI 'ng test --prod'
- D) Using Angular CLI 'ng run --prod'
- **Answer:** A) Using Angular CLI `ng build --prod`

88. What is Angular's `@HostListener` decorator used for?

- A) To listen to events on the host element
- B) To listen to events on child elements
- C) To listen to events on parent elements
- D) To listen to events on sibling elements

```
- **Answer:** A) To listen to events on the host element
#### 89. How can you test Angular components?
- A) Using Jasmine and Karma
- B) Using Jest
- C) Using Mocha and Chai
- D) All of the above
- **Answer:** D) All of the above
#### 90. How can you handle forms in Angular?
- A) Using reactive forms
- B) Using template-driven forms
- C) Using JavaScript forms
- D) Both A and B
- **Answer:** D) Both A and B
#### 91. How can you perform HTTP GET requests in Angular?
- A) Using `HttpClient.get()`
- B) Using `Http.get()`
- C) Using `HttpRequest.get()`
- D) Using `HttpClientRequest.get()`
- **Answer:** A) Using `HttpClient.get()`
#### 92. What is Angular's `RouterLinkActive` directive used for?
- A) To add a CSS class to an active route link
- B) To navigate to a route
- C) To define a route
- D) To lazy load a route
- **Answer:** A) To add a CSS class to an active route link
```

93. How can you handle route parameters in Angular?

- A) Using `ActivatedRoute` - B) Using 'Router' - C) Using `HttpClient` - D) Using `Renderer2` - **Answer:** A) Using `ActivatedRoute` #### 94. What is the purpose of Angular's `@Pipe` decorator? - A) To create custom pipes - B) To create custom directives - C) To create custom components - D) To create custom modules - **Answer:** A) To create custom pipes #### 95. How can you dynamically create components in Angular? - A) Using `ComponentFactoryResolver` - B) Using `Renderer2` - C) Using `ViewContainerRef` - D) Both A and C - **Answer:** D) Both A and C #### 96. How can you handle form validation errors in Angular? - A) Using `FormControl` and `FormGroup` - B) Using 'NgModel' - C) Using 'NgForm' - D) Using `NgControl` - **Answer: ** A) Using `FormControl` and `FormGroup` #### 97. How can you implement lazy loading in Angular? - A) Using `loadChildren` property in route configuration

- B) Using `loadComponent` property in route configuration
- C) Using `loadModule` property in route configuration
- D) Using `lazyLoad` property in route configuration
- **Answer:** A) Using `loadChildren` property in route configuration

98. What is Angular's `HttpParams` used for?

- A) To create query parameters for HTTP requests
- B) To create headers for HTTP requests
- C) To create body for HTTP requests
- D) To create path variables for HTTP requests
- **Answer:** A) To create query parameters for HTTP requests

99. How can you unit test Angular services?

- A) Using Jasmine and TestBed
- B) Using Jest
- C) Using Mocha and Chai
- D) All of the above
- **Answer:** D) All of the above

100. How can you implement a search feature in Angular?

- A) Using `*ngFor` with filter pipe
- B) Using `*ngIf`
- C) Using 'ngClass'
- D) Using 'ngStyle'
- **Answer:** A) Using `*ngFor` with filter pipe