



## Angular

Angular is the most powerful UI framework which can be used to develop complex, customizable, modern, responsive, and user-friendly web applications. The angular fra...More

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### Learning Progress

Status: Completed

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### What you will learn

- Create a component-based application using Angular components
- Enhance the functionality of components using Angular directives
- Create Angular forms and bind them with model data using data binding
- Validate forms using Angular built-in or custom validators
- Format the rendered data using Angular built-in or custom pipes

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### At a glance

Course

36h 43m

Beginner Level

Free

Infosys Wingspan

EN

Angular, Angular Introduction, Angular Features, mCart, Angular setup, Angular Installation, Creating an Angular application, mCart Quiz, Angular Components, Angular Modules, Executing an Angular

Thank you. Your test submitted.

You have cleared this assessment.

Obtained Percentage

Obtained Marks

---

100 %

---

30 / 30

---

Best Attempt Score:100 % on 08-06-2025

Review Your Attempt

Consider the following Angular routing code. Which line in the given code has an error?

```
(1) import { Routes, RouterModule } from '@angular/router';
(2) import { BooksComponent }      from './books.component';
(3) import { DashboardComponent } from './dashboard.component';
(4) import { BookDetailComponent } from './book-d
(5) const routes: Routes = [
(6)   { path: 'dashboard', component: DashboardComponent },
(7)   { path: '', pathMatch:'full' },
(8)   { path: 'books', component: BooksComponent },
(9)   { path:'detail/:id',component: BookDetailComponent }
(10) export const routing = RouterModule.forRoot(routes);
```

### Warning

This operation is disabled.

Ok

- Line 6
- Line 7
- Line 8
- Line 9

Which life cycle hook(s) is used to get the value of the reference that is fetched by @ViewChild decorator in a component class? [Select any two]

- ngAfterViewInit
- ngAfterViewChecked
- ngOnInit
- ngDoCheck

### Warning

This operation is disabled.

Ok

Consider the below code snippet and assume that all the required imports are done. What will be the output when the page loads in the browser?

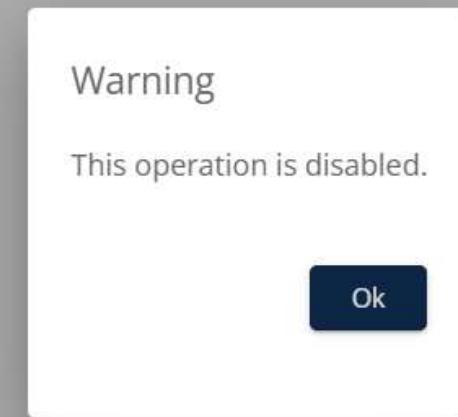
**app.component.html:**

```
<div>Welcome to {{courseTitle}}</div>
```

**app.component.ts:**

```
import { Component } from '@angular/core';

@Component ({
    selector: 'my-app',
    templateUrl: 'app/app.component.html'
})
export class AppComponent {
    courseTitle: string = 'Angular';
}
```



- Welcome to Angular
- Welcome to {{courseTitle}}
- Angular
- None of the above

Which of the following statement(s) is/are correct regarding pipes?

1. Pipes is a way of handling functionality inside templates
2. Pipes are used for data transformation

Both (i) and (ii) are true

Only(i) is true

Only (ii) is true

None of the given options are true

### Warning

This operation is disabled.

Ok

In the below-given code snippet, which line of code will throw an error?

```
(1) import { Component } from '@angular/core';
(2) @Component({
(3)   selector: 'app-root',
(4)   template: `<ul>
(5)     <li ngFor="let u of users">{(
(6)       </ul>`})
(7)
(8) export class AppComponent {
(9)   users=[{"name":"Ward Bell Dallas","address":
(10)     {"name":"Mark Zuckerberg","address":"
(11)       {"name":"James Cook Kent street","ad
```

Warning

This operation is disabled.

Ok

- Line Number 3
- Line Number 4
- Line Number 5
- Line Number 6

Amit has created two component classes called "AppComponent" & "LoginComponent" respectively. Which of the below code is correct inorder to see the LoginComponent view in the browser?

- @NgModule({ declarations: [AppComponent] })
- @NgModule({ declarations: [AppComponent, LoginComponent] })
- @NgModule({ declarations: [AppComponent, LoginComponent] })
- @NgModule({ declarations: [LoginComponent] })

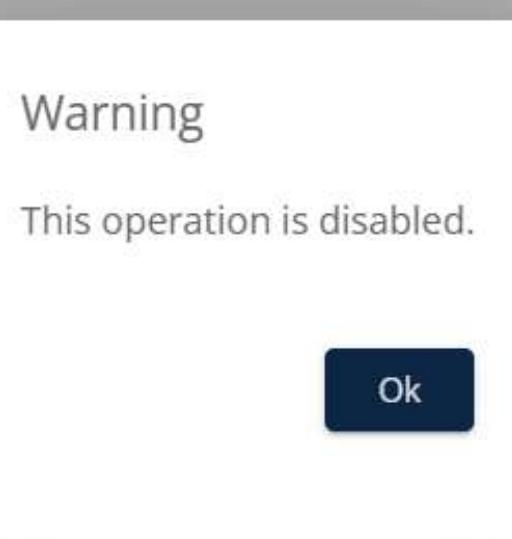
Warning

This operation is disabled.

```
  declarations: [AppComponent, LoginComponent] })  
})
```

Below is the code for a custom pipe to sort an array of numbers. Which line in the given code will throw an error?

```
1 import { Pipe, PipeTransform } from '@angular/core';
2
3 @Pipe({
4   name: 'sort'
5 })
6 export class SortPipe {
7
8   transform(value: any[], args:string): any {
9
10     if(args==="Ascending"){
11       return value.sort(function(a, b){return a-b})
12     }
13     else if(args==="Descending"){
14       return value.sort(function(a, b){return b-a})
15     }
16     else{
17       return value;
18     }
19   }
20 }
```

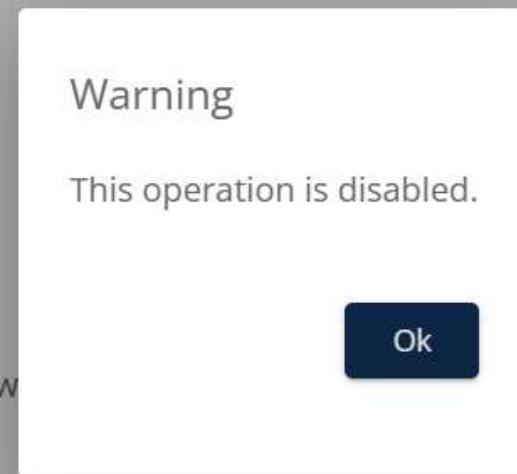


- Line Number 1
- Line Number 8
- Line Number 4
- Line Number 6

In the below-given code snippet, we are creating service ProtectGuard having a dependency on AuthLoginService:

#### ProtectGuard.service.ts:

```
export class ProtectGuard implements CanActivate {  
  constructor(private Authlogin: AuthLoginService) { }  
  canActivate(route: ActivatedRouteSnapshot, state: RouterStateSnapshot): Promise<boolean> {  
    Authlogin.isSignedIn().then(() => {  
      if (signedIn) {  
        return true;  
      }  
    })  
  }  
}
```



#### AuthLogin.service.ts:

It contains a method called isSignedIn w

[n of boolean value false wrapped inside a promise object.

Select the correct option to protect the path in users component in Angular.

- {path : 'users' , canActivate:[AuthLogin], component:UsersComponent}
- {path : 'users' , canActivate:[ProtectGuard], component:UsersComponent}
- {path : 'users' , canActivate:'AuthLogin', component:UsersComponent}
- {path : 'users' , canActivate:'ProtectGuard', component:UsersComponent}

Which of the following is correct to define the template of a component?

- @Component({ selector: 'app-coursedetail' })
- @Component({ selector: 'app-coursedetail' })
- @Component({ name: 'app-coursedetail', })
- @Component({ selector: 'app-coursedetail' })

Warning

This operation is disabled.

```
nt.html'  })  
ular</h1>'  })  
h1>'  })  
onent.html'  })
```

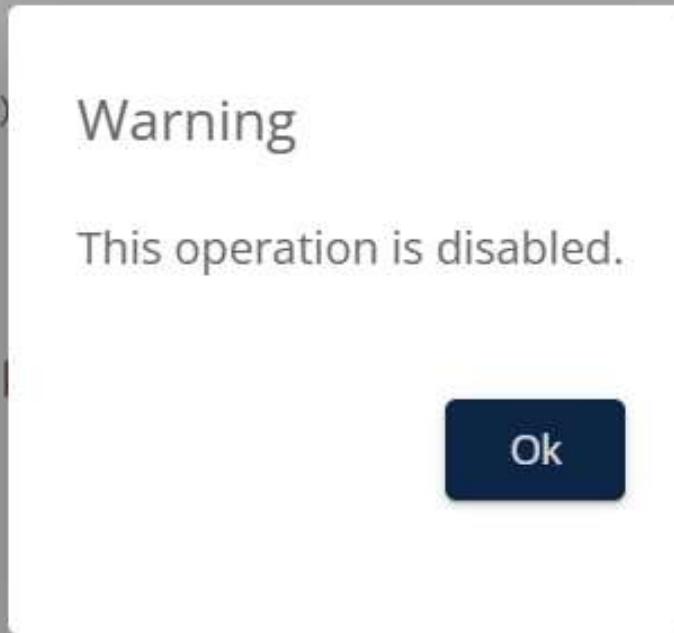
In the below code snippet, we configured a route path and ErrorComponent as follows  
app.module.ts:

```
{ path: "error", component: ErrorComponent, data: { message: "page not found" } }
```

ErrorComponent.ts:

```
export class ErrorComponent {
  constructor(private route: ActivatedRoute)
  errormessage: string;
  //line 4
}
```

Which of the following can be written in



from a route?

- this.errormessage = this.route.snapshot.data['message']
- this.route.data.subscribe((data)=>{this.errormessage = data['message']})
- Both a and b
- None of the above

For More Solutions: <https://github.com/DevGoyalG/NIET-Infosys-Springboard>

The only way to inject a service class inside a component is through a constructor. State True or False.

True

False

Warning

A Component will consists of the following

- i. Templates
- ii. Class
- iii. Metadata

- Only i and ii
- Only ii and iii
- Only i and iii
- All of the above

Which of the below syntax will clone and add DOM elements when the condition is true and removes from DOM when the condition is false?

- \*ngIf="conditional"
- [hidden]="conditional"
- ngIf\*="conditional"
- None of the above

Warning

This operation is disabled.

John has created a sign-in form and a model class for that. He wants to bind those form fields with the properties of the model class so that data can be transferred in both directions. What type of data binding he should use?

- One way (class->view)
- One way (view->class)
- Two Way
- None of the above

### Warning

This operation is disabled.

What type of one-way data binding is used for the below template?

```
<table border=1>  
  <tr>  
    <td [attr.colspan]="1+1"> First </td>  
    <td>Second</td>  
  </tr>  
  <tr>  
    <td>Third</td>  
    <td>Fourth</td>  
    <td>Fifth</td>  
  </tr>  
</table>
```

Warning

This operation is disabled.

Ok

- Property Binding
  - Attribute Binding
  - Event Binding
  - Interpolation
- For More Solutions: <https://github.com/DevGoyalG/NIET-Infosys-Springboard>

Which of the following syntax is not an example of one-way data binding?

- {{value}}
- [attr.colspan]='value'
- (click)="display()"
- [(ngModel)]="value"

Warning

This operation is disabled.

In reactive forms, we don't use the ngModel directive to bind form elements with model class properties. State True or False.

- True
- False

Warning

While passing the data from child to parent/container component, the property we create in the child component must be of which type?

- EventEmitter
- EventSender
- EventAny
- None of the above

### Warning

This operation is disabled.

Which of the following will successfully add required and email validators to the email field?

- email: ["Validators.required, Validators.email"]
- email: [Validators.required, Validators.email]
- email: ["Validators.required, Validators.email"]
- None of the given options

### Warning

This operation is disabled.

Ok

In reactive forms, which of the following class is used to build a reactive form object inside a component class?

- FormGroup
- Validators
- FormBuilder
- All of the above

Warning

This operation is disabled.

Which of the following is the correct way to bind a click event to the button?

i. <button (click) = "onSubmit(userName.value,password.value)">Login</button>

ii. <button onClick = "onSubmit(userName.value,p

- Only (i) is correct
- Only (ii) is correct
- Both (i) and (ii) are correct
- Neither (i) nor (ii) are correct

Warning

This operation is disabled.

Ok

Which of the following is not a built-in-pipe in Angular?

- CurrencyPipe
- FilterPipe
- UpperCasePipe
- PercentPipe

Warning

This operation

Which among the following is true about modules in Angular?

1. Module is a block of code with specific functionality that is used to organize the application
2. Each component created in an Angular application should be made part of a module

- Only (i) is true
- Only (ii) is true
- Both (i) and (ii) are true
- Neither (i) nor (ii) is true

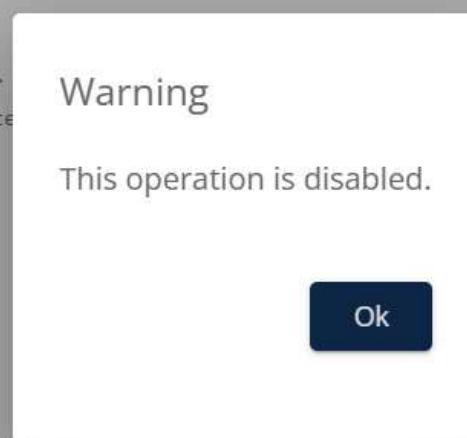
### Warning

This operation is disabled.

Ok

Vikas is trying to understand the code of a Single Page Application created using Angular. He sees the below code. When the application runs, he is able to go to its respective view on click of login or register. He is not able to understand which line of code is responsible for rendering the respective views on the page. Can you help him?

```
(1) <h1>{{title}}</h1>
(2)   <nav>
(3)     <a [routerLink]="/login">Login</a>
(4)     <a [routerLink]="/register">Register</a>
(5)   </nav>
(6)   <router-outlet></router-outlet>
```



- Line 3
- Line 4
- Line 6
- All the above

Which of the following can be used to pass data from one component to another component?

- a) @Input and @Output decorators
- b) route parameters in routing

- Only (a) can be used
- Only (b) can be used
- Both (a) and (b) can be used
- None of the given methods can be used

### Warning

This operation is disabled.

Ok

Which method invokes whenever the data property value changes?

```
export class AppComponent implements OnInit, DoCheck,
  AfterContentInit, AfterContentChecked,
  AfterViewInit, AfterViewChecked,
  OnDestroy
{
  ngOnInit()
    console.log('Init');

  ngAfterContentInit() {
    console.log('After content init');
  }

  ngDoCheck() {
    console.log('Change detected');
  }

  ngAfterContentChecked() {
    console.log('After content checked');
  }

  ngOnDestroy() {
    console.log('Destroy');
  }
}
```

- ngAfterContentInit()
- ngDoCheck()
- ngAfterContentChecked()
- All of the above

War

This

In the below code snippet, we configured route paths in UserModule and AppModule.

user.module.ts:

```
const userRoutes: Routes = [{  
    path: '',  
    component: UserComponent,  
    children: [  
        { path: 'add', component: AddUserComponent },  
        { path: 'update', component: UpdateUserComponent }  
    ]  
};
```

app.module.ts:

```
{  
    path: 'user',  
    loadChildren: () => import('./user/user.module').then(mod => mod.UserModule)  
}  
@NgModule({  
    imports: []  
})
```

### Warning

This operation

What will happen when the user will navigate to the 'user' route?

Note: All necessary imports are done.

- Path 'user' does not match any routepaths.
- UserComponent will be loaded dynamically.
- Usermodule will be loaded and it will add its routes to AppModule

For More Solutions: <https://github.com/DevGoyalG/NIET-Infosys-Springboard>

Consider the below Angular service code snippet. Which line in the below code will be executed when HttpClient returns an error response?

```
(1) @Injectable()  
(2) export class BookService {  
(3)   constructor(private http: HttpClient) { }  
(4)   private booksUrl = './assets/books.json';  
(5)   getBooks(): Observable<Book[]>{  
(6)     return this.http.get<Book[]>(this.booksUrl)  
(7)       .tap(data => console.log("All: " +  
(8)         data))  
          .catchError(this.handleError)}
```

### Warning

This operation is disabled.

Ok

- Line 6
- Line 7
- Line 8
- No line in the given code will be executed

Which of the following statement(s) is/are true regarding Reactive forms?

1. Reactive forms are used for large size forms
2. In Reactive forms, form control objects are created in the component class and will be bounded to the form elements in the template

- Only (i) is true
- Only (ii) is true
- Both (i) and (ii) are true
- None of the given options are true

### Warning

This operation is disabled.

Ok

How many files will get created when the following command is executed to generate a component using Angular CLI?

```
ng generate component MyComponent
```

- 2
- 3
- 4
- 5

### Warning

This operation is disabled.

Ok