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```
## You
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## Genie
AngularJS comes with a variety of inbuilt directives that we can use to manipulate the HTML.
Below is the explanation of all AngularJS inbuilt directives with examples:
1. **ng-app** - It initializes an AngularJS application and is typically placed at the root
element of an HTML document.
Example:
<!DOCTYPE html>
<html>
<head>
    <title>ng-App Directive</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js"></script>
</head>
<body ng-app="">
   <h1>Hello, World!</h1>
    This is an example of ng-app directive.
</body>
</html>
2. **ng-model** - It binds the value of an HTML control (input, select, textarea) to a variable
or expression. It creates a two-way binding between the view and the model.
Example:
<!DOCTYPE html>
<html>
<head>
    <title>ng-Model Directive</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js"></script>
</head>
<body ng-app="">
    <div>
        <label for="name">Name:</label>
        <input type="text" id="name" ng-model="name">
        Hello, {{ name }}!
    </div>
</body>
</html>
3. **ng-bind** - It binds the content of an HTML element to a variable or expression. It is a
one-way data binding and updates the view whenever the model changes.
Example:
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<!DOCTYPE html>
<html>
<head>
   <title>ng-Bind Directive</title>
   <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js"></script>
<body ng-app="">
   <div>
       </div>
</body>
</html>
4. **ng-repeat** - It repeats an HTML element for each item in an array or object. It is used to
generate a list of items dynamically.
Example:
<!DOCTYPE html>
<html>
<head>
   <title>ng-Repeat Directive</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js"></script>
</head>
<body ng-app="">
   <u1>
       {{ fruit }}
   </body>
</html>
5. **ng-click** - It defines an AngularJS expression to be executed when an element is clicked.
Example:
<!DOCTYPE html>
<html>
<head>
   <title>ng-Click Directive</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js"></script>
</head>
<body ng-app="" ng-init="count=0">
   <button ng-click="count = count + 1">Click Me!</button>
    You have clicked the button {{ count }} times.
</body>
</html>
6. **ng-show** - It shows an HTML element based on the value of an expression. If the expression
returns true, the element is displayed; otherwise, it is hidden.
Example:
<!DOCTYPE html>
<html>
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<head>
    <title>ng-Show Directive</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js"></script>
</head>
<body ng-app="" ng-init="isVisible=true">
    <button ng-click="isVisible=!isVisible">Toggle Visibility</putton>
    This paragraph will show or hide based on the button click.
</body>
</html>
7. **ng-hide** - It hides an HTML element based on the value of an expression. If the expression
returns true, the element is hidden; otherwise, it is displayed.
Example:
<!DOCTYPE html>
<html>
<head>
    <title>ng-Hide Directive</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js"></script>
</head>
<body ng-app="" ng-init="isVisible=false">
    <button ng-click="isVisible=!isVisible">Toggle Visibility</button>
    This paragraph will show or hide based on the button click.
</body>
</html>
8. **ng-disabled** - It disables an HTML element based on the value of an expression. If the
expression returns true, the element is disabled; otherwise, it is enabled.
Example:
<!DOCTYPE html>
<html>
<head>
    <title>ng-Disabled Directive</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min</pre>
Sure, here's an explanation of all the inbuilt directives in AngularJS with examples:
1. ng-app:
Defines the root element of an AngularJS application. This directive initializes the application
and can be placed on any HTML element.
2. ng-init:
Sets the initial values of variables for a controller. It is mainly used as a quick shortcut to
initialize some data.
Example:
<div ng-init="name='John'">
  {{name}}
</div>
```

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3. ng-model:
Binds an input element to a property on the scope. The value updates automatically as the user
types.
Example:
<input type="text" ng-model="name">
4. ng-repeat:
Iterates over a collection and creates a new instance of a template for each item in the
collection.
Example:
<l
  {{item}}}
5. ng-show/ng-hide:
Conditionally displays or hides an element based on an expression.
Example:
<div ng-hide="isVisible">Hide Me!</div>
6. ng-if:
Conditionally adds or removes an element from the DOM based on an expression.
Example:
<div ng-if="isShowing">Show Me!</div>
7. ng-switch:
Conditionally renders one HTML block from multiple blocks based on an expression.
Example:
<div ng-switch="color">
  <div ng-switch-when="red">This is Red</div>
  <div ng-switch-when="green">This is Green</div>
  <div ng-switch-default>Not Sure What Color This Is</div>
</div>
8. ng-class:
Applies one or more CSS classes to an element based on an expression.
Example:
<div ng-class="{error: isError, warning: isWarning}">Some Content</div>
9. ng-click:
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Specifies custom behavior when an element is clicked.
Example:
<button ng-click="doSomething()">Click Me!</button>
10. ng-submit:
Executes custom behavior when a form is submitted.
Example:
<form ng-submit="doSomething()">
  <input type="text" ng-model="name">
  <button type="submit">Submit</button>
</form>
These are the most commonly used built-in directives in AngularJS.
## You
what is ng controller with example
## Genie
In AngularJS, the `ng-controller` directive attaches a controller class to the view. This is
usually done in the HTML markup.
Here's an example:
```html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>ng-controller Example</title>
 <!-- Load AngularJS from CDN -->
 <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-app="myApp">
 <div ng-controller="MyController">
 {{ greeting }}
 </div>
 <script>
 angular.module("myApp", [])
 .controller("MyController", function($scope) {
 $scope.greeting = "Hello World!";
 });
 </script>
</body>
</html>
```

. . .

In this example, we have defined an AngularJS module named `myApp`. The module has a single controller named `MyController`.

We then use the `ng-controller` directive to attach `MyController` to a div element. Inside the div, we use the expression `{{ greeting }}` to output the value of the `greeting` property defined on the `\$scope` object inside `MyController`.

When the page is loaded, the output will be "Hello World!".