textarea DIRECTIVE IN ANGULARJS

- AngularJS alter the default behavior of the **<textarea>** element, when the ng-model attribute is present.

- HTML textarea element is control with AngularJS **data-binding** which means they are part of the ng-model and it can be referred and updated both in the AngularJS functions and in the DOM.

- The **databinding** and **validation** properties of this element are same as the input element.

- A textarea provides the **validation,** when the required attribute value is empty the **$valid** state shows in false condition.

- AngularJS textarea directive provides the **input state control** which is holds the current state of all the input elements.

- Textarea represents the value of each state is Boolean value and it either true or false.

Syntax for textarea directive in AngularJS:

<textarea ng-model="name"></textarea>

Properties of the textarea directive in AngularJS application:

Properties	Description
$pristine	Denotes no fields has not been modified.
$dirty	One or more fields has been changed.
$invalid	Content in the form is not valid.
$valid	Content in the form is valid.
$touched	Denotes that the field has been touched
$untouched	Denotes that the field has been not touched

CSS Class Properties of the textarea directive in AngularJS application:

Properties	Description
ng-pristine	Denotes no fields has not been modified.
ng-dirty	One or more fields has been changed.
ng-invalid	Content in the form is not valid.
ng-valid	Content in the form is valid.
ng-valid-key	One key for each validation. (Example: more than one thing to be validated.) ng-valid-required

ng-invalid-key	Example: ng-invalid-required
$touched	Denotes that the field has been touched
$untouched	Denotes that the field has been not touched

Sample coding for textarea directive in AngularJS:

```html
<! DOCTYPE html>
<html>
   <head>
      <title>Wikitechy AngularJS Tutorials</title>
      <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js">
      </script>
      <style>
         textarea.ng-invalid {
            background-color:yellow;
         }
         textarea.ng-valid {
            background-color:pink;
         }
      </style>
   </head>
   <body ng-app="">
      <h3>textarea Directive in AngularJS Tutorial</h3>
      <p>Type any content inside the textarea</p>
      <textarea ng-model="myTextarea" required ></textarea>
      <p>The content of the textarea is:</p>
      <h1>{{myTextarea}} </h1>
   </body>
</html>
```
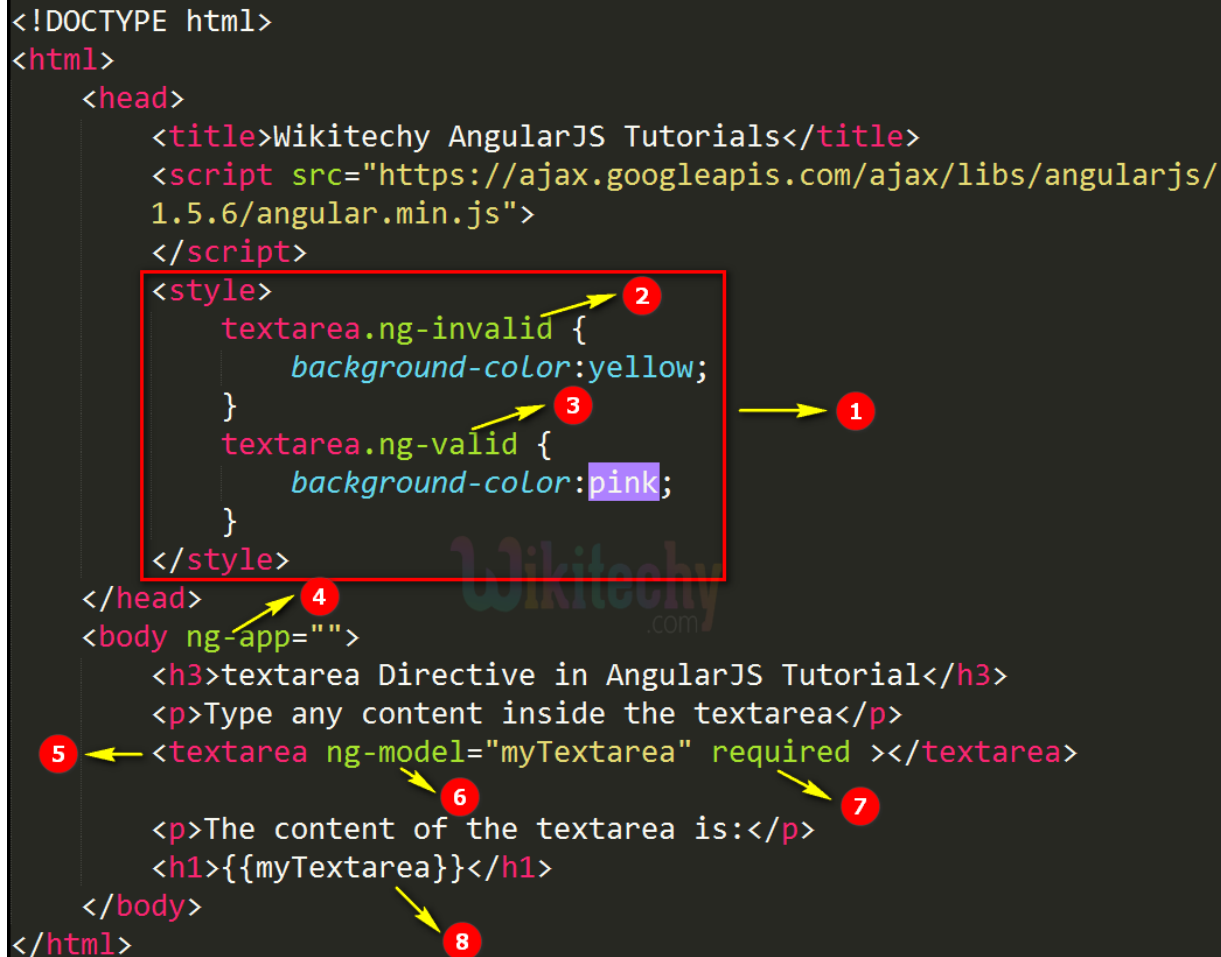
Textarea directive in AngularJS:

```
<textarea ng-model="myTextarea" required ></textarea>
```

Using CSS properties for Textarea directive in AngularJS:

```
<style>
   textarea.ng-invalid {
      background-color:yellow;
   }
   textarea.ng-valid {
      background-color:pink;
   }
</style>
```

Code Explanation for textarea directive in AngularJS:

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Wikitechy AngularJS Tutorials</title>
        <script src="https://ajax.googleapis.com/ajax/libs/angularjs/
        1.5.6/angular.min.js">
        </script>
        <style>
            textarea.ng-invalid {
                background-color:yellow;
            }
            textarea.ng-valid {
                background-color:pink;
            }
        </style>
    </head>
    <body ng-app="">
        <h3>textarea Directive in AngularJS Tutorial</h3>
        <p>Type any content inside the textarea</p>
        <textarea ng-model="myTextarea" required ></textarea>

        <p>The content of the textarea is:</p>
        <h1>{{myTextarea}}</h1>
    </body>
</html>
```
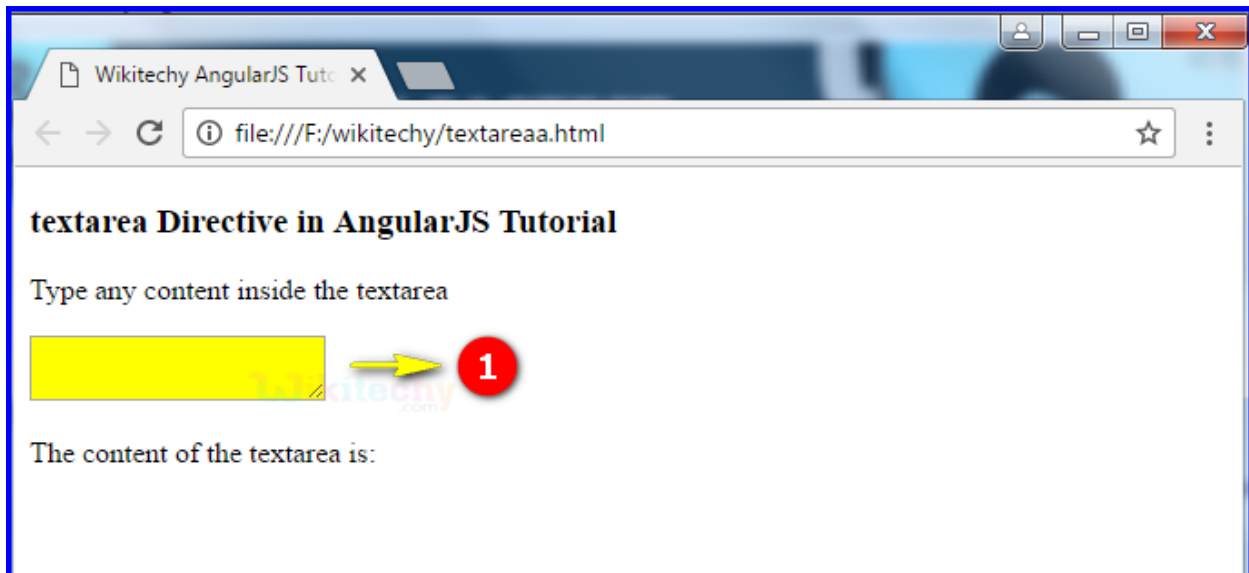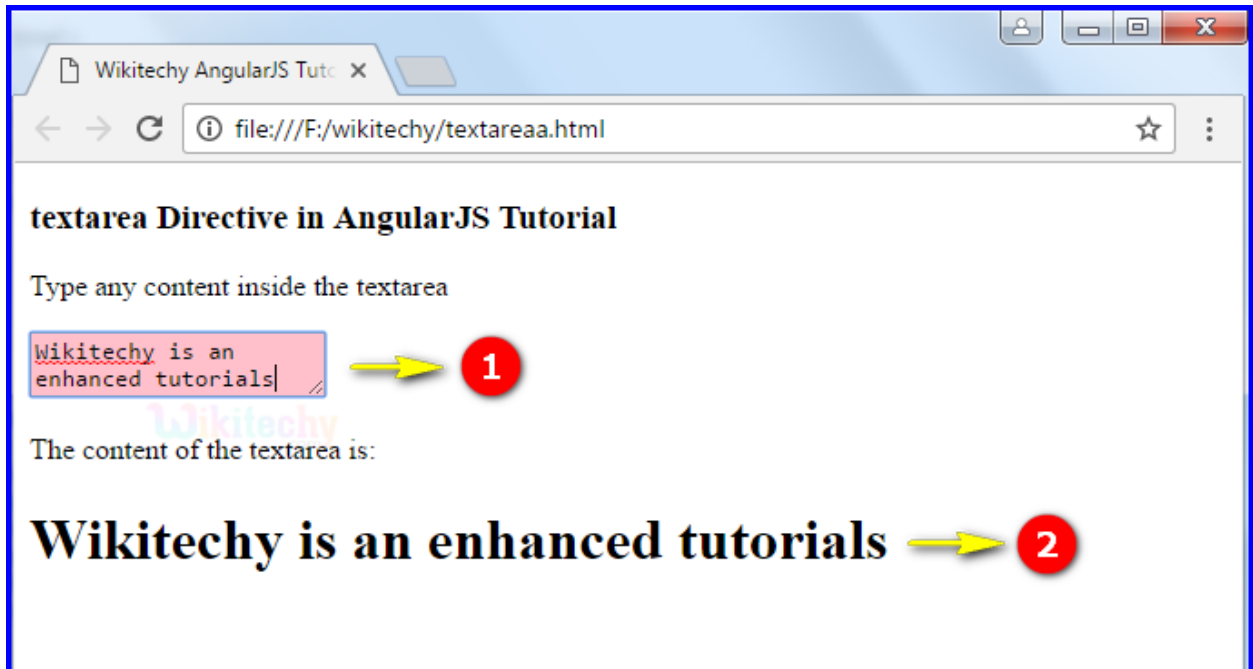
1. <style> tag is used to set the background color of the textarea elements.

2. The CSS classes for the textarea.ng-invalid class is used to declare the background color is yellow. (Here the textarea background color is yellow which means the textarea is notvalid.)

3. Textarea.ng-valid class is define a background color is pink.(here the texarea is pink which means the textarea is a valid.

4. The **ng-app** specifies the root element (<div>) to define AngularJS application.

5. <textarea> tag is used to get multiline text in the input field

6. The **ng-model** bind an input field value to AngularJS application variable ("**myTextarea**").

7. The required is used to display the content in the textarea field.

8. The expression {{ myTextarea }} is bind the value of mytextarea variable.

Sample Output for textarea directive in AngularJS:

1. The textarea is displayed on the page load and the output displays the yellow color which means the textarea is not valid.

1. If the user enters the text in the input field and the color will be changes to pink which means textarea field is a valid state using CSS property.

2. The content inside in the textarea is displayed below the textarea box as a heading.