

## ng-model DIRECTIVE IN ANGULARJS

- **ng-model** directive is used to bind the following HTML controllers like inputs, textarea, select
- The **ng-model** directive stores the value of the input field from a variable.
- The **ng-model** supports two-way binding that means, if the user changed the input field value then display values will be auto-synchronized.
- The **ng-model** also supports
  - To validate application data based on their types (email, number, required).
  - To validate application data based on their status (invalid, touched, dirty, error).
  - supports CSS classes for HTML elements.
  - Bind HTML elements to HTML forms.

### Syntax for ng-model directive in AngularJS

```
<element ng-model= "name" > </element>
```

#### Applies to:

| Elements   | Attribute |
|------------|-----------|
| <input>    | ng-model  |
| <select >  | ng-model  |
| <textarea> | ng-model  |

### Parameter value for ng-model directive in AngularJS:

| Value | Description  |
|-------|--|
| name  | The input name stores/updates the value of the input field into/from a variable. |



## Sample coding for ng-model directive in AngularJS:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
  </head>
  <body>
    <script
      src="https://ajax.googleapis.com/ajax/libs/
      angularjs/1.5.6/angular.min.js">
    </script>
    <h2> Wikitechy ng-model in AngularJS </h2>
    <div ng-app=" ">
      Enter Text : <input ng-model="text">
      <h3 ng-bind="text"></h3>
    </div>
  </body>
</html>
```

## ng-model directive declaration in AngularJS:

The **ng-model** bind an input field value to AngularJS application variable by using ng-model name as **"text"**.

```
Enter Text : <input ng-model="text">
```



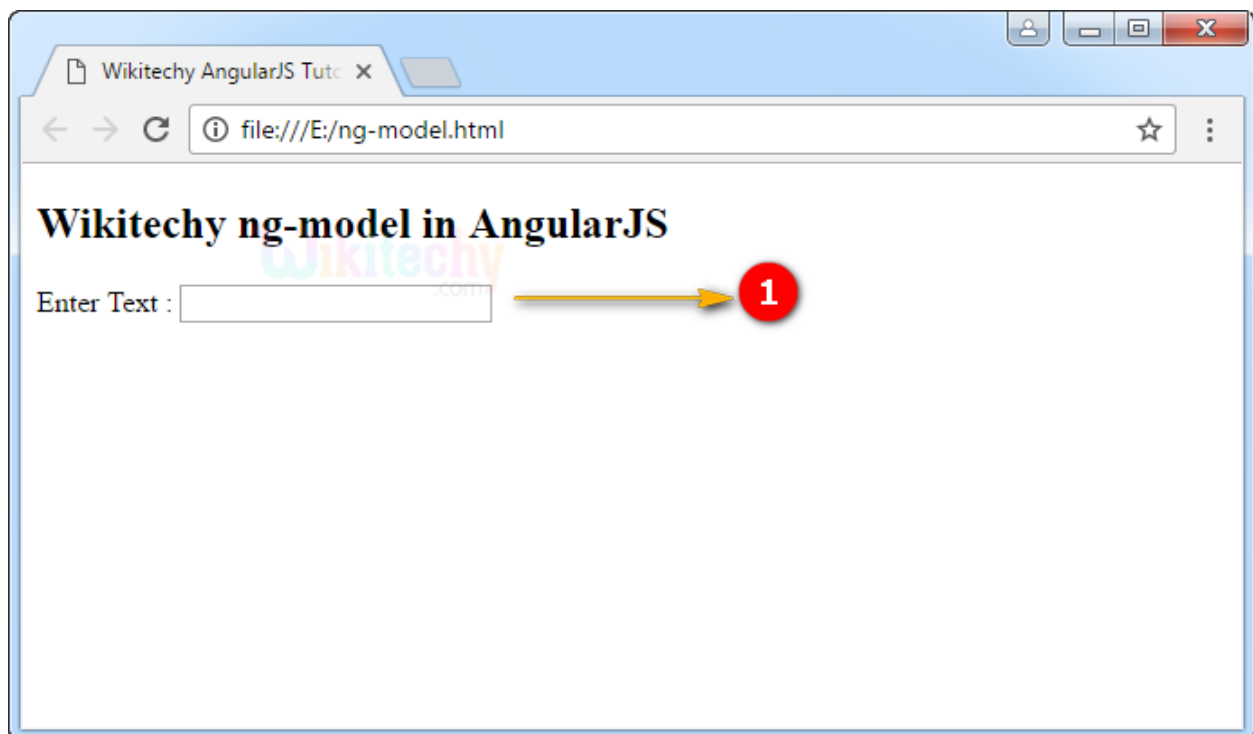
### Code Explanation for ng-model directive in AngularJS:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
  </head>
  <body>
    <script
      1 ← src="https://ajax.googleapis.com/ajax/libs/
        angularjs/1.5.6/angular.min.js">
    </script>
    <h2> Wikitechy ng-model in AngularJS </h2>
    <div ng-app=""
      2 →
      Enter Text : <input ng-model="text">
      <h3 ng-bind="text"></h3>
    </div>
  </body>
</html>
      4 ↓
      3 ↓
```

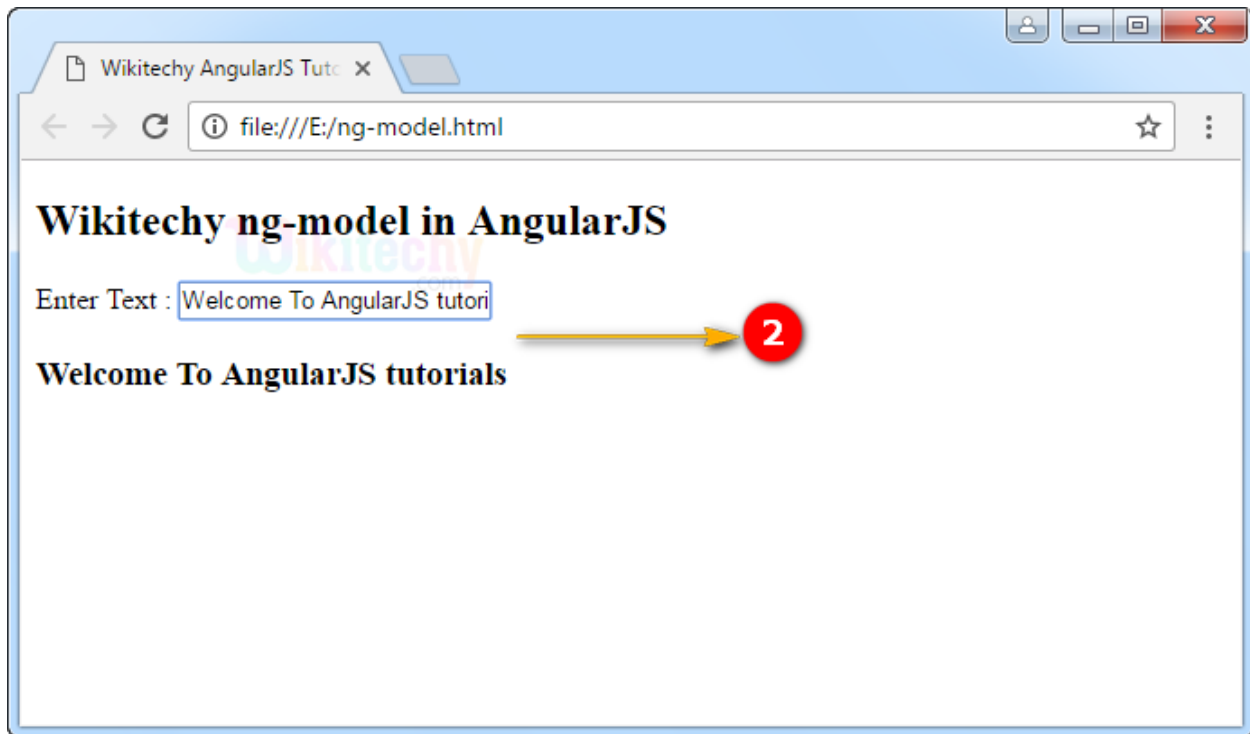
1. AngularJS is distributed as a JavaScript file, and can be added to a HTML page with a `<script>` tag.

2. The AngularJS application is defined by **ng-app=""**. The application runs inside the **<div>** tag. It's also used to define a **<div>** tag as a root element.
3. The **ng-model** bind an input field value to AngularJS application variable by using ng-model name as **"text"**.
4. The **ng-bind** is used to bind the content of the HTML **<input>** field value to application data.

### Sample Output for ng-model directive in AngularJS :



1. The output displays the textbox.



2. The output shows a two-way binding. If the user type "**Welcome To AngularJS tutorials**" in textbox then the AngularJS using **ng-model** for displayed that text.