$timeout SERVICE IN ANGULARJS

- The **$timeout** is an AngularJS service used to call a function on a specified time delay.

- The $timeout similar to JavaScript's window.setTimeout the only difference is we have to use $scope.apply() while using window.setTimeout().

Syntax for $timeout Service in AngularJS:

$timeout([function], [delaytime], [invokeApply], [parameter]);

Parameter Values of $timeout Service in AngularJS:

Parameter	Description
function	The functional part to be executed using $timeout Service.
delaytime	Delay time in milliseconds.
invokeApply	Boolean value to specifies to invoke **$apply** or not.
parameter	Additional parameters to $timeout service.

Methods of $timeout Service in AngularJS:

- $timeout.cancel(); is used to cancel the timeout request.

Sample code for $timeout Service 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>
    </head>
    <body>
        <div ng-app="myApp" ng-controller="timeCtrl" >
            <h3 >See the content after 5 seconds. </h3>
            <h3 > {{mycontent}} </h3>
        </div>
        <script>
            var app = angular.module("myApp", []);
            app.controller("timeCtrl", function($scope, $timeout) {
                $scope.mycontent = "Welcome to Wikitechy!";
                $timeout(function () {
                    $scope.mycontent = "I am New Content After 5 seconds";
                },5000);
            });
        </script>
    </body>
</html>
```

Data:

- Set of data has been used in $timeout service for our AngularJS Application.

```
mycontent = "Welcome to Wikitechy!";
```

HTML:

- Viewable HTML contents in AngularJS Application.

```
<div ng-app="myApp" ng-controller="timeCtrl" >
    <h3 >See the content after 5 seconds. </h3>
    <h3 > {{mycontent}} </h3>
</div>
```

Logic:

- Controller logic for the AngularJS application.
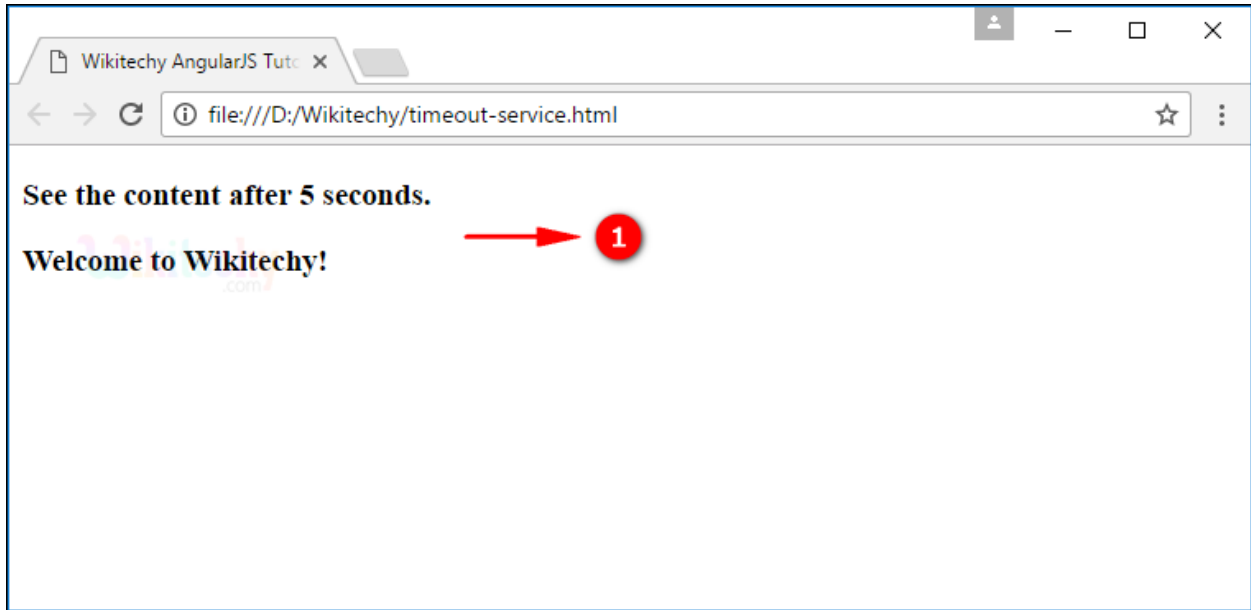
```
app.controller("timeCtrl", function($scope, $timeout) {
    $scope.mycontent = "Welcome to Wikitechy!";
    $timeout(function () {
        $scope.mycontent = "I am New Content After 5 seconds";
    },5000);
});
```

Code Explanation for $timeout Service 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>
  </head>
  <body>
    <div ng-app="myApp" ng-controller="timeCtrl">          ①
      <h3>See the content after 5 seconds. </h3>
      <h3> {{mycontent}} </h3>──→  ②
    </div>
    <script>
      var app = angular.module("myApp", []);          ③
      app.controller("timeCtrl", function($scope, $timeout) {
        $scope.mycontent = "Welcome to Wikitechy!";
  ④ ──→  $timeout(function () {
          $scope.mycontent = "I am New Content After 5 seconds";
        },5000);──→  ⑤
      });
    </script>
  </body>
</html>
```
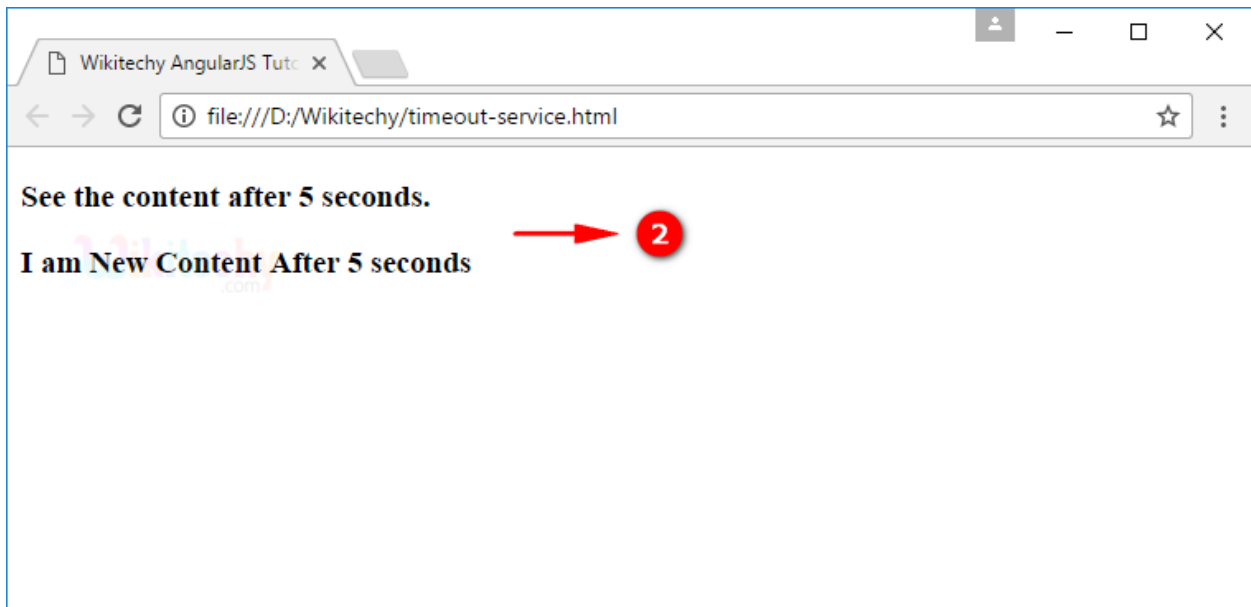
1. The **ng-controller** is a directive to control the AngularJS Application.

2. The **{{mycontent}}** to bind the data in <h3> tag.

3. The "**timeCtrl**" used to create the controller for the Application with arguments $scope object and **$timeout** service**.**

4. The **$timeout** is used to specify set of instructions executed in specified time delay.

5. The **"5000"** specifies the time delay in milliseconds.

Sample Output for $timeout Service in AngularJS:

1. The **"Welcome to Wikitechy"** is displayed when page loads.

2. After 5000 milliseconds the content changed to "**I am New Content After 5 seconds**".