

\$interval SERVICE IN ANGULARJS

- The **\$interval** is an AngularJS service used to call a function continuously on a specified time interval.
- The \$interval service similar to \$timeout service but the difference is \$timeout executed only ones in specified time but \$interval executed continuously.

Syntax for \$interval Service in AngularJS:

```
$interval([function], [delaytime], [count], [invokeApply], [parameter]);
```

Parameter Values of \$interval Service in AngularJS:

Parameter	Description
function	The functional part to be executed using \$interval Service.
delaytime	Delay time in milliseconds.
count	No of times to repeat the interval service.
invokeApply	Boolean value to specifies to invoke \$apply or not.
parameter	Additional parameters to \$interval service.

Methods of \$interval Service in AngularJS:

- `$interval.cancel();` is used to cancel the \$interval service.



Sample code for \$interval Service in AngularJS:

```
<!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>Wikitechy $interval Service </h3>
      <input type="button" value="Start" ng-click="Start()" />
      <input type="button" value="Stop" ng-click="Stop()" />
      <input type="button" value="Reset" ng-click="Reset()" />
      <h3> {{time}} </h3>
    </div>
    <script>
      var app = angular.module("myApp", []);
      app.controller("timeCtrl", function($scope, $interval) {
        $scope.time = 0;
        $scope.Start = function () {
          $scope.Timer = $interval(function () {
            $scope.time = $scope.time+1;
          }, 1000);
        };
        $scope.Stop = function () {
          if (angular.isDefined($scope.Timer)) {
            $interval.cancel($scope.Timer);
          }
        };
        $scope.Reset = function () {
          $scope.time = 0;
        };
      });
    </script>
  </body>
</html>
```



```
    };  
  });  
</script>  
</body>  
</html>
```

Data:

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

```
time = 0;
```

HTML:

- Viewable HTML contents in AngularJS Application.

```
<div ng-app="myApp" ng-controller="timeCtrl" >  
  <h3>Wikitechy $interval Service </h3>  
  <input type="button" value="Start" ng-click="Start()" />  
  <input type="button" value="Stop" ng-click="Stop()" />  
  <input type="button" value="Reset" ng-click="Reset()" />  
  <h3> {{time}} </h3>  
</div>
```

Logic:

- Controller logic for the AngularJS application.

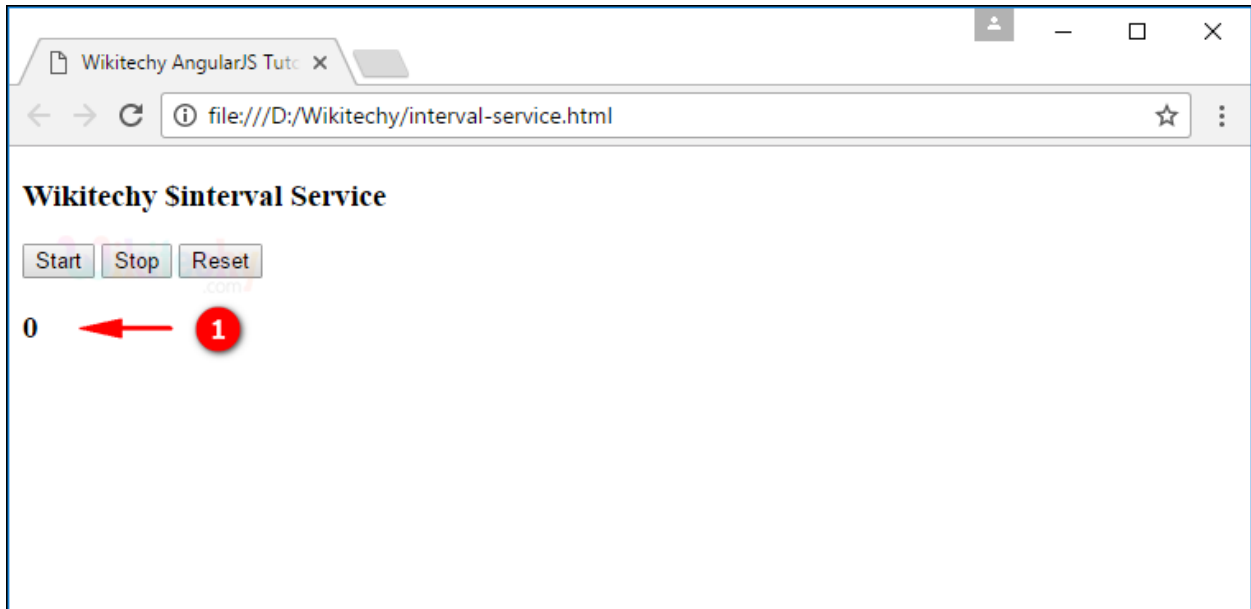
```
app.controller("timeCtrl", function($scope, $interval) {
  $scope.time = 0;
  $scope.Start = function () {
    $scope.Timer = $interval(function () {
      $scope.time = $scope.time+1;
    }, 1000);
  };
  $scope.Stop = function () {
    if (angular.isDefined($scope.Timer)) {
      $interval.cancel($scope.Timer);
    }
  };
  $scope.Reset = function () {
    $scope.time = 0;
  };
});
```

Code Explanation for \$interval Service in AngularJS:

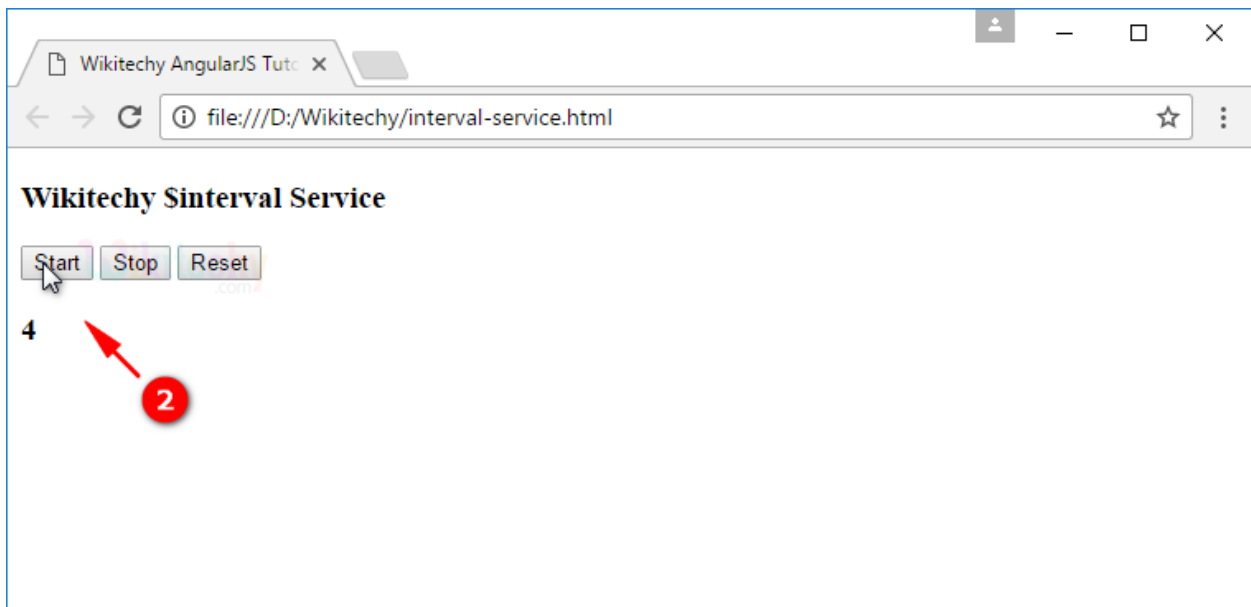
```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
    <script src="https://ajax.googleapis.
      com/ajax/libs/angularjs/1.5.6/angular.min.js"> </script>
  </head>
  <body>
    <div ng-app="myApp" ng-controller="timeCtrl">
      <h3>Wikitechy $interval Service </h3>
      <input type="button" value="Start" ng-click="Start()" />
      <input type="button" value="Stop" ng-click="Stop()" />
      <input type="button" value="Reset" ng-click="Reset()" />
      <h3> {{time}} </h3>
    </div>
    <script>
      var app = angular.module("myApp", []);
      app.controller("timeCtrl", function($scope, $interval) {
        $scope.time = 0;
        $scope.Start = function () {
          $scope.Timer = $interval(function () {
            $scope.time = $scope.time+1;
          }, 1000);
        };
        $scope.Stop = function () {
          if (angular.isDefined($scope.Timer)) {
            $interval.cancel($scope.Timer);
          }
        };
        $scope.Reset = function () {
          $scope.time = 0;
        };
      });
    </script>
  </body>
</html>
```

1. The **ng-controller** is a directive to control the AngularJS Application.
2. The button to call **Start()** function and defines to increase 1 for every 1000milliseconds (1 second).
3. The button to call **Stop()** function defines \$interval.cancel method to stop.
4. The button to call **Reset()** function defines to reset the value to zero.
5. The **{{time}}** to bind the data in <h3> tag.
6. The **"timeCtrl"** used to create the controller for the Application with arguments \$scope object and **\$interval** service.
7. The **\$scope.time = 0;** is used to set initial time to zero.
8. The **Start** function is used to start the timer.
9. The **\$interval service** is used to specify set of instructions executed in specified time delay continuously.
10. The **Stop** function is used to stop the timer.
11. The **\$interval.cancel** is used to specify cancel the \$interval service.
12. The **Reset** function is used to reset the timer.

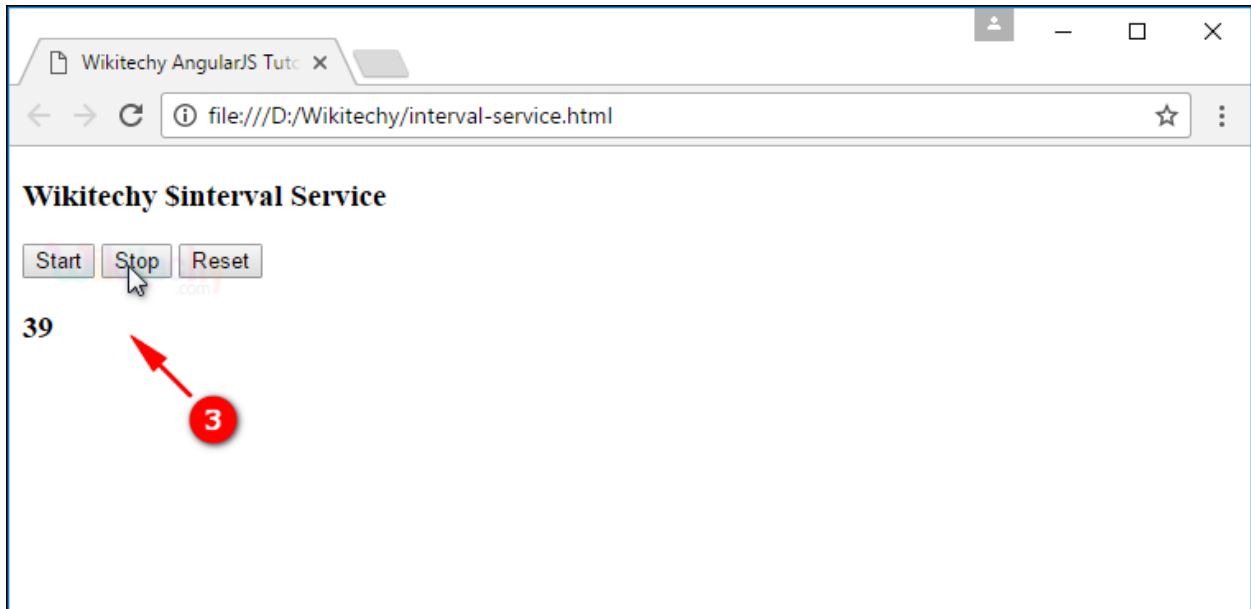
Sample Output for \$interval Service in AngularJS:



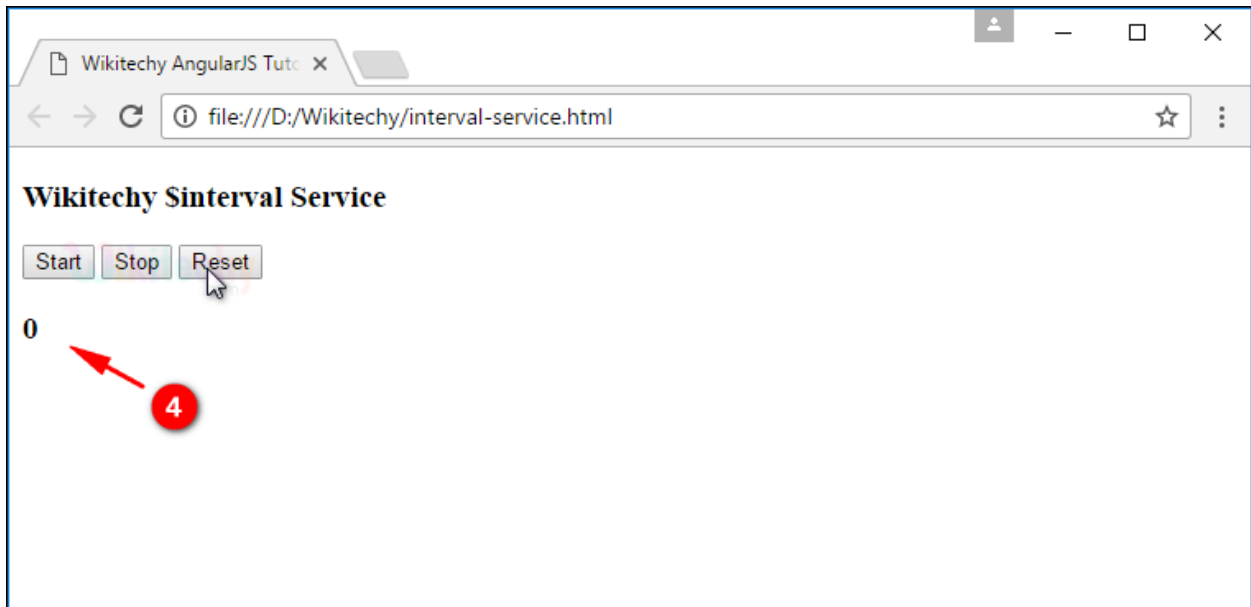
1. The timer is "0" displayed when page loads.



2. When user click the Start button then the timer starts and increase one for every 1000 milliseconds(1 seconds).



3. When user click the Stop button then the timer stops.



4. When user click the Reset button then the timer has been reset.