FACTORY SERVICE IN ANGULARJS

- Factory method is one of the services in AngularJS.
- AngularJS factory method is generating a singleton object or injectable function. The object or function is passed as a parameter to any other factory function which specifies a dependency on this service.

Syntax for Factory service in AngularJS:

```
app.factory('factoryname', function()
{ ..... } );
```

 © Copyright 2016. All Rights Reserved.

Sample Coding for Factory service in AngularJS:

```
<! DOCTYPE html>
<html>
   <head>
      <title>Wikitechy AngularJS Tutorial</title>
      <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js"></sc
ript>
   </head>
   <body>
      <div ng-app="myApp" ng-controller="factoryCtrl">
         <h3>square value using factory method in AngularJS</h3>
         <p>square value of 50 is <b> {{ result}}</b> </p>
      </div>
      <script>
         var app = angular.module('myApp', []);
         app.factory('square', function() {
            var factory= { };
            factory.myFunc = function (a) {
               return a*a;
            }
            return factory;
         });
         app.controller('factoryCtrl', function($scope, square) {
            $scope.result = square.myFunc(50);
         });
      </script>
   </body>
</html>
```

 © Copyright 2016. All Rights Reserved.

Code Explanation for Factory service in AngularJS:

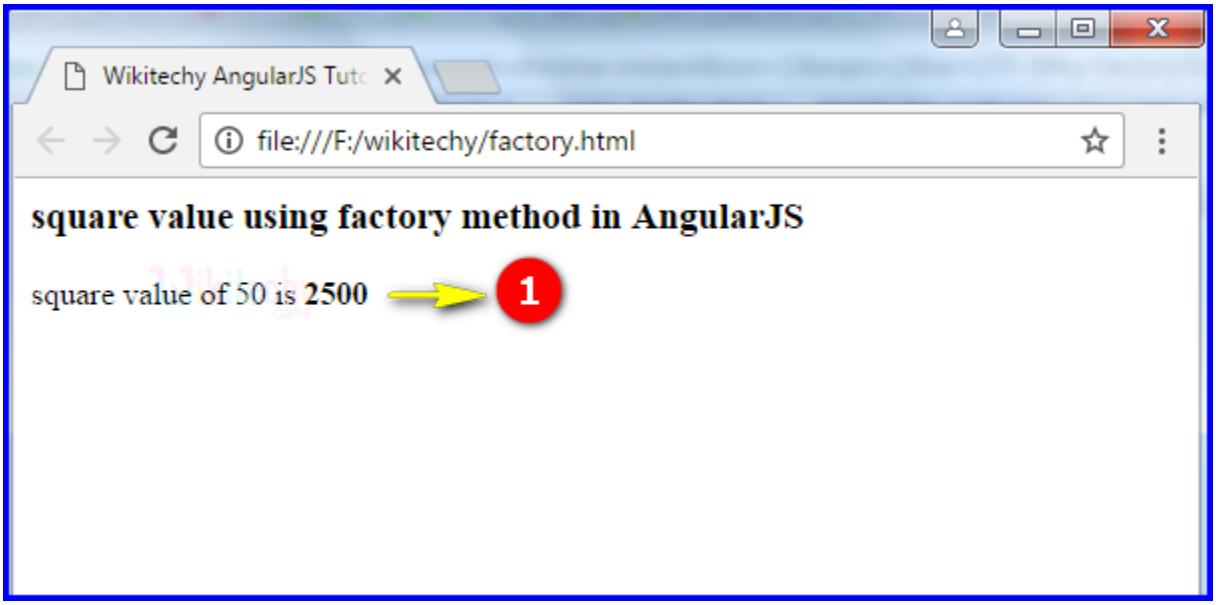
```
<!DOCTYPE html>
<html>
    <head>
        <title>Wikitechy AngularJS Tutorial</title>
        <script src="https://ajax.googleapis.com/ajax/libs/angularjs/
        1.5.6/angular.min.js"></script>
    </head>
    <body>
        <div ng-app="myApp" ng-controller="factoryCtrl">
            <h3>square value using factory method in AngularJS</h3>
            <p>square value of 50 is <b>{{ result}}</b> </p>
        </div>
        <script>
            var app = angular.module('myApp', []);
            app.factory('square', function() {
                var factory= { };
                factory.myFunc = function (a) {
                    return a*a;
                }
                return factory;
            });
            app.controller('factoryCtrl', function($scope, square) {
                $scope.result = square.myFunc(50);
            });
        </script>
    </body>
</html>
```

1. The **ng-app** specifies the root element (“myApp”) to define AngularJS application.
2. The **ng-controller** control the data of **“factoryCtrl”** in AngularJS application.
3. Here create factory services (app.factory) and the factory name is given as “square”.

 © Copyright 2016. All Rights Reserved.

4. variable is used to declare the method of factory **(factory={ })** and factory method is used to create a Function(myFunc) is return the square value of "a" and the value gets from the scope object($scope.result).
5. The **"square"** factory service is added with the controller function.
6. $scope.result is used to declare the square value is 50 and the output will be updated in the <script> tag.

Sample Output for Factory service in AngularJS:



1. The output displays the square value is 2500.

 © Copyright 2016. All Rights Reserved.