**Angular JS – Day 4 (Angular Services)**

**Exercises**

1. Write an Angular JS program to communicate with the server side program, get the result and pass the data into the angular directive.

Step 1: Write a servlet to display Hello World message in doGet() method:

package com.oracle;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class HelloServlet

\*/

public class HelloServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public HelloServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

PrintWriter pw=response.getWriter();

pw.println("Hello World Servlet in GET method");

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

PrintWriter pw=response.getWriter();

pw.println("Hello World Servlet in POST method");

}

}

Step 2:

Create HTML file MyForm.html:

<html lang=*"en"*>

<head>

<title>One</title>

<script src=*"angular.min.js"*></script>

</head>

<body ng-app=*"myApp"* ng-controller=*"GuruController"*>

<h1> Communication with server </h1>

{{myData}}

<h2 ng-bind=*"myData"*></h2>

</body>

<script>

**var** app = angular.module('myApp', []);

app.controller('GuruController', **function**($scope,$http)

{

**var** response = $http.get("http://localhost:8081/HelloWorldServlet/Hello");

response.success(**function**(data, status, headers, config) {

alert('success');

alert(data);

$scope.myData = data;

});

response.error(**function**(data, status, headers, config) {

alert('failure');

alert("AJAX failed!");

});

});

</script>

</html>

Step 3:

Right click, run MyForm.html on server (example: Tomcat server).

1. Write an AngularJS application to demonstrate user defined services.

<!DOCTYPE html>  
<html lang="en">  
 <head>  
 <title>AngularJS Service Example</title>  
 <script src="angular.min.js"></script>   
 </head>  
 <body ng-app="app" ng-controller="SaluteController">  
 <button ng-click="welcome();">Welcome</button>  
 <button ng-click="goodbye()";>Good Bye </button>  
 Returned text is {{returnText}}  
 </body>  
   
 <script>  
   
 **var** app=angular.module('app',[]);  
   
   
  
 app.controller('SaluteController',**function**($scope,WelcomeService,GoodByeService)  
 **{**  
 **alert**('SaluteController');  
 $scope.welcome=**function**()  
 **{**  
 $scope.returnText=WelcomeService.wel();  
   
 **}**  
   
 $scope.goodbye=**function**()  
 **{**  
 $scope.returnText=GoodByeService.good();  
 **}**  
 **}**);  
   
 app.service('WelcomeService',**function**()  
 **{**  
 **this**.wel=**function**()**{** **return** 'Welcome';**}**  
 **}**);  
  
 app.service('GoodByeService',**function**()  
 **{**  
 **this**.good=**function**() **{** **return** 'Good Bye';**}**  
 **}**);  
   
 </script>  
</html>