**Directives:**

Angularjs directives are extend the functionality of HTML.

Various directives are

ng-app,

ng-init,

ng-model,

ng-repeat

**ng-app** – This is used to initialize an Angular.JS application. When this directive in placed in an HTML page, it basically tells Angular that this HTML page is an angular.js application.

<script src="angular.js">

</script>

<div ng-app>

{{2+3}}

</div>

**ng-init** – This is used to initialize application data. Sometimes you may require some local data for your application, this can be done with the ng-init directive.

<body ng-app ng-init="value='hello'">

<div >

{{value}}

</div>

<div>

{{value}}

</div>

<body>

**ng-model** – And finally we have the ng-model directive, which is used to bind the value of an HTML control to application data.

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

<body ng-app>

<input type="text" ng-model="feild">

{{feild}}

<body>

**Calculator application:**

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

<body ng-app>

<input type="number" ng-model="feild">

<input type="number" ng-model="feild1">

{{feild + feild1}}

<body>

**ng-repeat** – This is used to repeat an HTML element. The example below shows how to use the ng-repeat directive.

<script src="angular.js">

</script>

<body ng-app>

<div ng-init="cources=['javascript','jquery','Angular']">

<span ng-repeat="names in cources">

{{names}}

</span>

<div>

<body>

**Byusinglist:**

<script src="angular.js">

</script>

<body ng-app>

<div ng-init="cources=['javascript','jquery','Angular']">

<span ng-repeat="names in cources">

<ul>

<li>{{names}}</li>

</ul>

</span>

<div>

<body>

**customDeirective:**

<script src="angular.js">

</script>

<body ng-app="demo">

<div ng-sample=""></div>

<script>

var app = angular.module("demo",[]);

app.directive('ngSample',function(){

return{

template:"<p>WELCOME</p>"

}

});

</script>

</body>

**Filters:**

**orderBy,**

<script src="angular.js">

</script>

<body ng-app>

<div ng-init="cources=['javascript','jquery','Angular']">

<span ng-repeat="names in cources | orderBy">

<ul>

<li>{{names}}</li>

</ul>

</span>

<div>

<body>

Uppercase:

<script src="angular.js">

</script>

<body ng-app>

<div ng-init="cources=['javascript','jquery','Angular']">

<span ng-repeat="names in cources">

<ul>

<li>{{names | uppercase}}</li>

</ul>

</span>

<div>

<body>

**Filter:**

<script src="angular.js">

</script>

<body ng-app>

<div ng-init="cources=['javascript','jquery','Angular']">

<span ng-repeat="names in cources | filter:'jq'">

<ul>

<li>{{names}}</li>

</ul>

</span>

<input type="text" ng-model="name">{{name}}

<div>

<body>

Taking input filter:

<script src="angular.js">

</script>

<body ng-app>

<div ng-init="cources=['javascript','jquery','Angular']">

<span ng-repeat="names in cources | filter:name">

<ul>

<li>{{names}}</li>

</ul>

</span>

<input type="text" ng-model="name">

<div>

<body>

Controller:

**Basic:**

<script src="angular.js">

</script>

<div ng-app="DemoApp" ng-controller="demoController">

{{tutorial}}

</div>

<script>

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

app.controller('demoController',function($scope){

$scope.tutorial="ANGULAR CONTROLLER";

});

</script>

Attaching json:

<script src="angular.js">

</script>

<div ng-app="DemoApp" ng-controller="demoController">

{{skill.core}}

{{skill.adv}}

</div>

<script>

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

app.controller('demoController',function($scope){

var skill={core:"java",adv:"j2EE"};

$scope.skill= skill;

});

</script>

**Binding model attribute to controler and executing function:**

<script src="angular.js">

</script>

<div ng-app="DemoApp" ng-controller="demoController">

<input type="number" ng-model="first">

<input type="number" ng-model="second"></br>

Addition:{{addition()}}</br>

Subtraction:{{subtraction()}}

</div>

<script>

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

app.controller('demoController',function($scope){

$scope.first=0;

$scope.second=0;

$scope.addition=function(){

return $scope.first+$scope.second;

}

$scope.subtraction=function(){

return $scope.first-$scope.second;

}

});

</script>

Angular events:ng-click

<script src="angular.js">

</script>

<div ng-app>

<input type="button" value="demo" ng-init="count=0" ng-click="count=count+1">

{{count}}

</div>

**Ng-show:**

<script src="angular.js">

</script>

<div ng-app="DemoApp" ng-controller="demoController">

<input type="button" value="demo" ng-click="show()">

<div ng-show="visable">Demo<div>

</div>

<script>

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

app.controller('demoController',function($scope){

$scope.visable=false;

$scope.show=function(){

$scope.visable=true;

}

});

</script>

**Ng-hide:**

<script src="angular.js">

</script>

<div ng-app="DemoApp" ng-controller="demoController">

<input type="button" value="demo" ng-click="show()">

<div ng-hide="visable">Demo<div>

</div>

<script>

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

app.controller('demoController',function($scope){

$scope.visable=false;

$scope.show=function(){

$scope.visable=true;

}

});

</script>

**Ng-include:**

<script src="angular.js">

</script>

<div ng-app>

<div ng-include="'training1.html'"></div>

</div>

**Services:**

<script src="angular.js">

</script>

<div ng-app="DemoApp" ng-controller="demoController">

{{tutorial}}

</div>

<script>

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

app.controller('demoController',function($scope,$location){

$scope.tutorial=$location.absUrl();

});

</script>

**Services:**

<script src="angular.js">

</script>

<div ng-app="sample" ng-controller="demoController">

{{sampleservice}}

</div>

<script>

var app = angular.module("sample",[]);

app.service('demoService',function(){

this.display = function(){

return "FROM SERVICE";

};

});

app.controller('demoController',function($scope,demoService){

$scope.sampleservice=demoService.display();

});

</script>

**Factory:**

<div ng-app="samplemodule">

<span ng-controller='sampleController'>

{{samplemessage}}

{{samplemessage1}}

</span>

</div>

<script>

var app = angular.module("samplemodule",[]);

app.factory('demoFactory',function(){

var obj = {};

obj.message="FROM FACTORY";

obj.done=function(){

return "HELLO"

};

return obj;

});

app.controller("sampleController",function($scope,demoFactory){

$scope.samplemessage=demoFactory.done();

$scope.samplemessage1=demoFactory.message;

});

</script>

**Provider:**

<div ng-app="samplemodule">

<span ng-controller='demoController'>

{{message}}

</span>

</div>

<script>

var app = angular.module("samplemodule",[]);

app.provider('demoProvider',function(){

this.$get=function(){

return{

message:"FROM PROVIDER",

message1:"HANA USING"

};

};

});

app.controller('demoController',function($scope,demoProvider){

$scope.message=demoProvider.message;

});

</script>

**Routing**

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

<script src="angular-route.js"></script>

<body ng-app="samplemodule" ng-controller="sampleController">

<a href="#!training" >INBOX</a>

<div ng-view></div>

</body>

<script>

var app = angular.module("samplemodule",["ngRoute"]);

app.config(function($routeProvider){

$routeProvider

.when("/training",{

controller:"sampleController",

templateUrl:"training1.html"

});

});

app.controller('sampleController',function($scope){

$scope.message='FROM ROUTING';

});

</script>

**Routing otherwise:**

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

<script src="angular-route.js"></script>

<body ng-app="samplemodule" ng-controller="sampleController">

<a href="#!training" >TRAINING</a>

<a href="#!inbox" >INBOX</a>

<div ng-view></div>

</body>

<script>

var app = angular.module("samplemodule",["ngRoute"]);

app.config(function($routeProvider){

$routeProvider

.when("/training",{

controller:"sampleController",

templateUrl:"training1.html"

})

.when("/inbox",{

controller:"sampleController",

templateUrl:"inbox.html"

})

.otherwise({

redirectTo:"/training"

});

});

app.controller('sampleController',function($scope){

$scope.message='FROM ROUTING';

});

</script>