

Lab sheet -11 (Angular JS)

Angular, a front-end framework developed by Google, is built entirely on TypeScript, a subset of JavaScript. Use any of the online coding tools that allow you to import Angular and run your code in the browser. Here are the 2 options:

<https://codesandbox.io/s/angular>

<https://stackblitz.com/edit/angular-practice-start?file=app%2Fapp.component.ts>

Practice1: AngularJS Expressions, strings, arrays. objects

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>
<div ng-app>
<p>Example expression: {{ 10 + 5 }}</p>
<div ng-app="" ng-init="firstName='Geo';lastName='Kumar">

<p>The Complete name is: {{ firstName + " " + lastName }}</p>
</div>
<div ng-app="" ng-init="quantity=3;cost=100">
<p>Total amount rupees: <span ng-bind="quantity * cost"></span></p>
</div>
<div ng-app="" ng-init="person={firstName:'Geo',lastName:'Kumar'}">

<p>The First name is {{ person.firstName }}</p>
</div>
<div ng-app="" ng-init="points=[11,25,13,12,130]">

<p>The second result is <span ng-bind="points[1]"></span></p>
</div>
</div>
```

```
</body>
</html>
Practice2: AngularJS Modules
```

```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>
<!--// adding a controller-->
<div ng-app="myApp" ng-controller="myCtrl">

{{ firstName + " " + lastName }}
</div>

<script>
var app = angular.module("myApp", []); // creating a module
app.controller("myCtrl", function($scope) {
$scope.firstName = "Laya";
$scope.lastName = "babu";
});
</script>
</body>
</html>
```

Practice3: AngularJS Directives

```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>
<div data-ng-app="" data-ng-init="quantity=9;price=125">
<h2>Cost Calculator</h2>
Quantity: <input type="number" ng-model="quantity">
Price: <input type="number" ng-model="price">
<p><b>Total in rupees:</b> {{quantity * price}}</p>
```

```
</div>
</body>
</html>

Practice4: ng-model

<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>
<div ng-app="myApp" ng-controller="myCtrl">
Name: <input ng-model="name">
</div>
<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope) {
$scope.name = "Laya babu";
});
</script>
<p>Use the ng-model directive to bind the value of the input field to a property made in the controller.</p>
</body>
</html>
```

Practice5: two-way binding

```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>

<div ng-app="myApp" ng-controller="myCtrl">
Name: <input ng-model="firstname">
<h1>{firstname}</h1>
</div>
<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope) {
```

```

$scope.firstname = "John";
$scope.lastname = "Doe";
});
</script>
<p>Change the name inside the input field, and the model data will change automatically, and therefore
also the header will change its value.</p>
</body>
</html>

```

Practice6: AngularJS Controllers

```

<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>
<div ng-app="myApp" ng-controller="myCtrl">
First Name: <input type="text" ng-model="firstName"><br>
Last Name: <input type="text" ng-model="lastName"><br>
<br>
Full Name: {{firstName + " " + lastName}}
</div>
<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope) {
$scope.firstName = "John";
$scope.lastName = "Doe";
});
</script>
</body>
</html>

```

Demonstrates the fundamental architecture of Angular applications

Students have to refer below links and understand flow of working of angular application and its components. Modules and directives.

<https://buddy.works/tutorials/building-a-web-app-with-angular-and-bootstrap>

<https://stackblitz.com/run?file=src%2Fapp%2Fhero-list.component.ts>