

Write a angularJS program to implement two way binding

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Angular 1</title>
  <script src="./angular-1.8.2/angular.js"></script>
  <script>
    const myApp = angular.module("myApp",[])
    myApp.controller('myController1',function ($scope){
      $scope.custName = "customer1"
      $scope.custCode = 1234
      $scope.showMsg = function (msg){
        alert(msg)
      }
    });
    myApp.controller("myController2",function($scope){
      $scope.custName = "customer2"
      $scope.custCode = 5678
      $scope.showMsg = function (msg){
        alert(msg)
      }
    })
  </script>
</head>
<body>
  <body ng-app="myApp">
    <div ng-controller="myController1">
      Customer name :<input type="text" ng-model="custName"/>
      <br>
      Customer-code :<input type="text" ng-model="custCode"/>
      <br>
      {{ custName}} &nbsp; {{custCode}}
      <br>
      <input type="button" value="Click" ng-click="showMsg(custName)">
    </div>
    <div ng-controller="myController2">
      Customer name :<input type="text" ng-model="custName"/>
      <br>
      Customer-code :<input type="text" ng-model="custCode"/>
      <br>
      {{ custName}} &nbsp; {{custCode}}
      <br>
      <input type="button" value="Click" ng-click="showMsg(custName)">
    </div>
  </body>
</body>
```

```

    </div>

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

Create an array of numbers , array of objects and use ng-repeat directive and display numbers and array of objects with alternate background color

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 2</title>
  <script src="angular-1.8.2/angular.js">

</script>
</head>
<body ng-app>
  <div ng-init="arrayNumber=[100,200,300,400];
    emaployees=[
      {fName: 'Akhil', lName: 'Sharma'},
      {fName: 'Rashmi', lName: 'Shetty'}
    ]">
    <table border="1" >
      <tr>
        <th>
          fName
        </th>
        <th>
          lName
        </th>
      </tr>

      <tr ng-repeat="e in emaployees">
        <td ng-if="$even" style="background: #2a6496">
          {{e.fName}}
        </td>
        <td ng-if="$even" style="background: #c9e2b3">
          {{e.lName}}
        </td>

        <td ng-if="$odd" style="background: springgreen">
          {{e.fName}}
        </td>
        <td ng-if="$odd" style="background: orange">
          {{e.lName}}
        </td>
      </tr>
    </table>
  </div>

</body>
</html>
```

Write a angularJS program to demonstrate the use of ng-readonly, ng-disabled ,ng-if directives

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 03</title>
  <script src="./angular-1.8.2/angular.js"></script>
</head>
<body ng-app ng-init="checked=true">
  <p>
    Click me : <input type="checkbox" ng-model="checked">
  </p>

  <p>
    New :<input type="text" ng-if="checked"/>
  </p>

  <p>
    Read only : <input type="text" ng-readonly="checked" value="This is read only" />
  </p>

  <p>
    Disabled : <input type="text" ng-disabled="checked" value="This is disabled one"/>
  </p>

</body>
</html>
```

Write a angularjs program to create custom directive “ my directive” to display AIMIT. And also demonstrate the use of different kind of restriction like E,A,M

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Angular 4</title>
  <script src="angular-1.8.2/angular.js"></script>
  <script>
    let app = angular.module("myApp", [])
    app.directive("myDirective", function () {
      return {
        restrict: "EA",
        replace: true,
        template: "<H1>HELLO WORLD</H1>"
      }
    });
  </script>
</head>
<body>
  <div my-directive></div>
</body>
</html>
```

```

    </script>
</head>
<body ng-app="myApp">
    <br>
    <p>
        Element name:<my-directive></my-directive>
    </p>

    <p>
        Attribute name : <div my-Directive></div>
    </p>

</body>
</html>
```

Write a AngularJS program to demonstrate controllers. Create a AngularJs controller called “myContoller” attach a message and method/behavior to display message

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Angular 5</title>
  <script src="angular-1.8.2/angular.js"></script>
  <script>
    let app = angular.module("myApp",[])
    app.controller('myController',function ($scope){
      $scope.message = "HELLO WORLD"
    })
  </script>
</head>
<body ng-app="myApp">
  <h3 ng-controller="myController">
    {{message}}
  </h3>

</body>
</html>
```

Write a angularJS program to demonstrate \$scope and \$rootScope objects

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Angular 6</title>
  <script src="angular-1.8.2/angular.js"></script>
  <script>
    let app = angular.module("myApp", [])
    app.controller("myController1", function ($scope, $rootScope){
      $scope.msg = "AIMIT";
      $rootScope.mainMsg="BeerI,Mangalore"
    })
    app.controller("myController2", function ($scope ){
      $scope.msg = "ALOYSIUS";
    })
    app.controller("myController3", function ($scope ){

    })
  </script>
</head>
<body ng-app="myApp">

  <div ng-controller="myController1">
    <p>{{msg}}</p>
    <p>{{mainMsg}}</p>
  </div>

  <br>
  <div ng-controller="myController2">
    <p>{{msg}}</p>
    <p>{{mainMsg}}</p>
  </div>

  <br>
  <div ng-controller="myController3">
    <p>{{msg}}</p>
    <p>{{mainMsg}}</p>
  </div>

  <br>
</body>
</html>
```

Write a AngulaJS program to demonstrate filters. Create a list of students objects (name,course marks) and a) display students details in the ascending order of marks
a)based on the input (textfield) display students names which contains inputted text in their name

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 7 </title>
  <script src="angular-1.8.2/angular.js"></script>
</head>
<body ng-app>
  Enter Amount : <input type="text" ng-model="amount"/>
  <br>
  number : 4 {{1111 | number}}<br>
  number | number = {{amount | number}}<br>
  Number 4 {{amount | number:4}}<br>
  Number 6 {{amount | number:6}}<br>

  <div ng-init="kk=['sanya','Shree','sam'];student=[
    { name:'Joy',marks:'88',course:'MCA'},
    { name:'Ram',marks:'68',course:'MBA'},
    { name:'Sham',marks:'98',course:'Msc'}

    ]">

    <p>
      Ascending order marks
    </p>
    <ul>
      <li ng-repeat="x in student | orderBy:'marks'" >
        {{x.name}}
      </li>
    </ul>
    <br>
    <p>
      Enter the course <input type="text" ng-model="cCourse"/>
      <br>
      <li ng-repeat="x in student | filter:cCourse" >
        {{x.name}}
      </li>
    </p>
  </div>
</body>
</html>
```


Write a AngulaJS program to demonstrate custom filters. Create a custom filter to display every even index string in CAPITAL letters and ODD index String in SMALL letters

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 7</title>
  <script src="angular-1.8.2/angular.js"></script>
  <script>
    var app = angular.module("myApp",[])
    app.filter("myFilter",function (){
      return function (inputText){
        var i,text,c;
        text="";
        for(i=0;i<inputText.length;i++){
          c = inputText[i]
          if(i%2 == 0){
            c = c.toUpperCase()
          }else{
            c= c.toLowerCase()
          }
          text += c;
        }
        return text
      }
    })
  </script>
</head>
<body ng-app="myApp">
  <p ng-init="cityName=['manglore','Banglore']">
    <ul>
      <li ng-repeat="c in cityName">
        {{c |myFilter}}
      </li>
    </ul>
  </p>

</body>
</html>
```

Write a AngulaJS program to demonstrate Builtin services

\$interval → display current running time in the fashion HOURS :: MINUTES::SECONDS AM/PM using \$interval

\$timeout -> agularjs program to change message using \$timeout service.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 9</title>
  <script src="angular-1.8.2/angular.js"></script>
  <script>
    var app = angular.module("myApp", [])
    app.controller('myController', function ($scope, $location, $timeout, $interval) {
      $scope.curTime = new Date();
      $timeout(function () {
        $scope.myHeader = "How are you ?"
      }, 2000);
      $interval(function () {
        $scope.curTime = new Date()
      }, 2000)
    })
  </script>
</head>
<body ng-app="myApp">
<p ng-controller="myController">
  {{myHeader}}
  {{curTime}}
</p>
</body>
</html>
```

Create a custom service hexafy to convert number into hexadecimal function. And write an angularJS program to demonstrate how to use a custom service hexafy

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 10 </title>
  <script src="angular-1.8.2/angular.js"></script>
  <script>
    var app = angular.module("myApp", [])
    app.controller('myController', function ($scope,hexafy){
      $scope.t1 = 255
      $scope.convHexa = function (){
        $scope.hexd = hexafy.myFun(parseInt($scope.t1))
      }
    })

    app.service("hexafy",function (){
      this.myFun = function (x){
        return x.toString(16).toUpperCase();
      }
    })
  </script>
</head>
<body ng-app="myApp" >
  <p ng-controller="MyController" >
    Enter the Decimal result : <input type="text" name="t1" ng-model="t1"/>
    <br>
    <input type="button" ng-click="convHexa()" value="Convert"/>
    <br>
    Result is : {{hexd}}
  </p>

</body>
</html>
```

Create a custom service arithmetic with add,sub,mult and square of a given number. And write an angularJS program to demonstrate how to use a custom service arithmetic

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 11 </title>
  <script src="angular-1.8.2/angular.min.js"></script>
  <script>
    var app = angular.module("myApp", [])
    app.service("Arthmatic",function (){
      this.addNo=function (x,y){
        x = parseInt(x);
        y = parseInt(y);
        return x+y;
      }
      this.subNo= function (x,y){
        return (parseInt(x)-parseInt(y));
      }
    })

    app.controller("myController",function ($scope,Arthmatic){
      $scope.addNumber = function (){
        $scope.result = Arthmatic.addNo($scope.t1,$scope.t2)
      }
      $scope.subNumber = function (){
        $scope.result = Arthmatic.subNo($scope.t1,$scope.t2)
      }
    })
  </script>
</head>
<body ng-app="myApp" ng-controller="myController">
  <p >
    <br>
    <input type="text" ng-model="t1" name="t1"><br>
    <input type="text" ng-model="t2" name="t2"><br>
    <button ng-click="addNumber()">
      ADD
    </button>
    <br>
    <br>
    <button ng-click="subNumber()">
      SUB
    </button>
    <br>
```

```
<h1>
  {{result}}
</h1>

</p>

</body>
</html>
```

Write a angularJS program to demonstrate angularjs-mouse events

ng-mouseover , ng-mouseenter , ng-mousemove , ng-mouseleave , ng-mousedown

ng-mouseup , ng-click

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 12 </title>
  <script src="angular-1.8.2/angular.js">
  </script>
<script>
  var app = angular.module("myApp", [])
  app.controller("myController",function ($scope){
    $scope.count = 0;
    $scope.myFunction = function (){
      $scope.count +=1
    }
  })
</script>
</head>
<body ng-app="myApp">
  <div ng-controller="myController">
    <textarea ng-focus="count =count+1">AIMIT</textarea>
    <h1>{{count}}</h1>
    <h3 ng-mouseover="count =count+1">
      Mouse Over
    </h3>
    <br>
    <h3 ng-mouseenter="count =count+1">
      Mouse center
    </h3>
    <br>
    <h3 ng-mousemove="count =count+1">
      Mouse M0ve
    </h3>
    <br>
    <h3 ng-mouseleave="count =count+1">
      Mouse leave
    </h3>
    <br>
    <h3 ng-mousedown="count =count+1">
      Mouse Down
    </h3>
    <br>
    <h3 ng-mouseup="count =count+1">
      Mouse up
```

```
    </h3>
  </div>

</body>
</html>
```

Write a angularJS program to demonstrate angularjs-key events

-- ng-dblclick ,ng-focus, ng-keydown , ng-keypress, ng-keyup

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Angular 13</title>
  <script src="angular-1.8.2/angular.js"></script>
</head>
<body ng-app>
  <textarea ng-focus="count=count+1">AIMIT</textarea>
  {{count}}
  <br>
  <h3 ng-dblclick="count =count+1" ng-init="count=0">
    dblclick demo
  </h3>

  <h3>
    Focus on key <input ng-focus="count =count+1" ng-init="count=0" type="text">
  </h3>

  <br>
  <h3>
    Press down key : <input type="text" ng-keydown="count =count+1" ng-init="count=0"/>
  </h3>
  <br>
  <h3>
    press Any key :<input type="text" ng-keypress="count =count+1" ng-init="count=0"/>
  </h3>
  <br>
  <h3>
    Press up key : <input type="text" ng-keyup="count =count+1" ng-init="count=0">
  </h3>
</body>
</html>
```


Create a form to read user first name, last name, phone no ,address, and user message.

Incorporate all required validations using angularJS. To display error message use ng-show nd ng-messages directives

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Angular 13</title>
  <script src="angular-1.8.2/angular.js"></script>
  <script src="angular-1.8.2/angular-messages.js"></script>
  <script>
    let app = angular.module("myApp", ['ngMessage']);
  </script>

</head>
<body ng-app="myApp">
<form name="myForm">
  <label>
    Enter the name:
  </label>
  <input type="text" name="firstName" ng-model="firstName" required/>
  <span style="color: red" ng-show="myForm.fName.$error.required">
    This field is required
  </span>
  <br>
  <label>
    Enter the Address:
  </label>
  <textarea ng-model="address" name="add" ng-minlength="20" ng-maxlength="50"></textarea>
  <span style="color: red" ng-show="myForm.add.$error.minlength">
    20 character required
  </span>
  <span style="color: red" ng-show="myForm.add.$error.maxlength">
    below 50 character allowed
  </span>
  <br>

</form>

</body>
</html>
```

Write a angularJS program to demonstrate Arrays

Adding, deleting and ordering of items added to the cart

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
  <script src="angular-1.8.2/angular.js"></script>
  <script>
    let app = angular.module('myApp',[])
    app.controller('myController',function ($scope){
      $scope.items = ["item7","item2","item4","item0"]
      $scope.delItem = function (n){
        $scope.items.splice(n,1)
      }
      $scope.addItem = function (n){
        $scope.items.push($scope.it1);
      }
      $scope.revItem = function (){
        $scope.items.reverse();
      }
      $scope.sortItem = function (){
        $scope.items.sort();
      }
    })
  </script>
</head>
<body ng-app="myApp">
  <div ng-controller="myController">
    <ol>
      <li ng-repeat="x in items"> {{ x }} </li>
    </ol>
    <br>
    Enter item to inserted : <input type="text" ng-model="it1"/>
    <button ng-click="addItem()">Insert</button>
    <button ng-click="delItem($index)">delete</button>
    <button ng-click="revItem()">Reverse</button>
    <button ng-click="sortItem()">SORT</button>
  </div>

</body>
</html>
```

Write a AJAX Program to Read data from the remote file and display.

```
<!DOCTYPE html>
<html lang="en">
<head>

    <title> Angular 16</title>
    <script src="angular-1.8.2/angular.js"></script>
    <script>
        var app = angular.module("myApp",[])
        app.controller("myController",function ($scope,$http){
            $http.get("index.html").then(function (response){
                $scope.myResponse = response.data
            },function (response){
                $scope.myResponse = "error"
            })
        })
    </script>
</head>
<body ng-app="myApp">
    <p ng-controller="myController">
        {{myResponse}}
    </p>

</body>
</html>
```

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Exmple</title>
</head>
<body>
    <h1>
        HELLO FROM index.html file
    </h1>
</body>
</html>
```

Write a program to Read data from the JSON file and display

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Angular 17</title>
  <script src="angular-1.8.2/angular.js"></script>
  <script>
    var app = angular.module("myApp", [])
    app.controller("myController",function ($scope,$http){
      let url = "data.json";
      $http.get(url).then(function (response){
        $scope.students = response.data;
      }),function (response){
        $scope.data = "error"
      }
    })
  </script>
</head>
<body ng-app="myApp">
  <div ng-controller="myController">
    <div>
      {{students}}
    </div>

    <div>
      <table border="1">
        <tr>
          <th>NAME</th>
          <th>ADDR</th>
        </tr>

        <tr ng-repeat="st in students">
          <td>{{st.name}}</td>
          <td>{{st.add}}</td>
        </tr>
      </table>
    </div>
  </div>
</body>
</html>
```