

1.Develop Angular JS program that allows user to input their first name and last name and display their full name. Note: The default values for first name and last name may be included in the program.

```
<!DOCTYPE html>
```

```
<html>
```

```
<title>
```

```
    Angular JS Full Name Pgm
```

```
</title>
```

```
<head>
```

```
    <script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
```

```
</script>
```

```
<script>
```

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

```
    app.controller("myCntrl",function($scope){
```

```
        $scope.firstName="Sangeetha"
```

```
        $scope.lastName="G"
```

```
    });
```

```
</script>
```

```
</head>
```

```
<body ng-app="myApp">
```

```
    <h2>Angular JS Application to Display Full Name</h2>
```

```
    <div ng-controller="myCntrl">
```

```
        Enter      First      Name:      <input      type="text"      ng-
```

```
model="firstName"><br/>
```

```
    Enter    Last    Name:    <input    type="text"    ng-  
model="lastName"><br/>
```

```
    Your Full Name: { { firstName + " " + lastName } }
```

```
</div>
```

```
</body>
```

```
</html>
```

2. Develop an Angular JS application that displays a list of shopping items. Allow users to add and remove items from the list using directives and controllers. Note: The default values of items may be included in the program.

```
<!DOCTYPE html>
```

```
<html>
```

```
<title>
```

```
Shopping Items Application
```

```
</title>
```

```
<head>
```

```
<script type="text/javascript"
```

```
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min  
.js">
```

```
</script>
```

```
<script>
```

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

```
app.controller("myCntrl",function($scope){
```

```
$scope.shoppingItems=['Apple','Mango','Banana','Grapes']
```

```
$scope.addItem=function(){
```

```
if($scope.newItem &&
```

```
$scope.shoppingItems.indexOf($scope.newItem)==-1)
```

```
{
```

```
$scope.shoppingItems.push($scope.newItem)
```

```
$scope.newItem=""
```

```
}
```

```
else
```

```

{
  if($scope.newItem)
    alert("This item is already there in the shopping list")
  else
    alert("Please enter an item to add")
  }
}
$scope.removeItem=function()
{
  //console.log("function called")
  if($scope.shoppingItems.indexOf($scope.selectItem)==-1)
  {
    alert("Please select an item to remove")
  }
  else
  {
    var index=$scope.shoppingItems.indexOf($scope.selectItem)
    $scope.shoppingItems.splice(index,1)
    $scope.selectItem=""
  }
}
});
</script>
</head>
<body ng-app="myApp">
<div ng-controller="myCntrl">
<h2>Shopping Application</h2>
<h4>List of Shopping Items</h4>
<table border="1">
<tr>
<th>SLNO</th>
<th>Item</th>
</tr>
<tr ng-repeat="items in shoppingItems">
<td>{{ $index+1 }}</td>
<td>{{ items }}</td>
</tr>
</table>
<br/>

```

```

<div>
  Enter an Item to Add: <input type="text" ng-model="newItem">
  <button ng-click="addItem()">Add Item</button>
</div>
<div>
  Select an Item to Remove:
  <select ng-model="selectItem" ng-options="item for item in
shoppingItems"></select>
  <button ng-click="removeItem()">Remove Item</button>
</div>
</div>
</body>
</html>

```

3.Develop a simple Angular JS calculator application that can perform basic mathematical operations (addition, subtraction, multiplication, division) based on user input.

```

<!DOCTYPE html>

<html>

<title>
AJS Simple Calculator
</title>

<head>

<script                                     type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.mi
n.js">
</script>

<script>
var app=angular.module("calcApp",[]);
app.controller("calcCntrl",function($scope)

```

```
{
$scope.num1=0
$scope.num2=0
$scope.result=0
$scope.operator="add"
$scope.compute=function()
{
switch($scope.operator)
{
case 'add': $scope.result=$scope.num1 + $scope.num2
break
case 'sub': $scope.result=$scope.num1 - $scope.num2
break
case 'mul': $scope.result=$scope.num1 * $scope.num2
break
case 'div': if($scope.num2==0)
{
alert("Divide by zero error")
}
else
{
$scope.result=$scope.num1/$scope.num2
}}
}});
</script>
</head>
```

```

<body ng-app="calcApp">
<h1>Angular JS Simple Calculator</h1>
<div ng-controller="calcCntrl">
Enter First Number: <input type="number" ng-model="num1">Select
Operator:<select ng-model="operator">
<option value="add">+</option>
<option value="sub">-</option>
<option value="mul">*</option>
<option value="div">/</option>
</select>
Enter Second Number:<input type="number" ng-model="num2">
<button ng-click="compute()">Compute</button>
<br/>
<b>{{ num1 + " "+operator+ " "+ num2+ "="+result }}</b>
</div>
</body>
</html>

```

4. Write an Angular JS application that can calculate factorial and compute square based on given user input.

```

<!DOCTYPE html>
<html>
<title>
AJS Square and Factorial Application
</title>
<head>

```

```
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("mySqFct", []);
app.controller("mySqFctCntrl", function($scope){
$scope.num=0
$scope.result
$scope.factorial=function()
{
if($scope.num==0)
{
$scope.result=1
}
else{
$scope.fact=1
for(var i=$scope.num; i>=1; i--)
{
$scope.fact=$scope.fact*i
}
$scope.result=$scope.fact
}
}
$scope.square=function(){
$scope.result=$scope.num*$scope.num
```

```

}
});
</script>
</head>
<body ng-app="mySqFct">
<h1> Angular JS Factorial and Square Application</h1>
<div ng-controller="mySqFctCntrl">
Enter the Number: <input type="number" ng-model="num">
<button ng-click="factorial()">Compute Factorial</button>
<button ng-click="square()">Compute Square</button>
<br/>
{{result}}
</div>
</body>
</html>

```

8. Develop AngularJS program to create a login form, with validation for the username and password fields.

```

<!DOCTYPE html>
<html>
<title>Angular JS Login Form</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("loginApp",[]);
app.controller('loginAppCntrl',function($scope){
$scope.userName="

```



```
$scope.password=""

$scope.noAttempts=0
$scope.login=function(){
// console.log("Inside login function")

if($scope.userName=="harish" &&
$scope.password=="12345678")
{
alert("Login Successfull")
}
else{
$scope.noAttempts++
if($scope.noAttempts<=3)
{
alert("Incorrect user name/password! Attempt
No."+$scope.noAttempts)
}
else{

document.getElementById("loginButton").disabled=true
}

}
}
});
</script>
<style>
.error-message{
    color:red;
    font-size: 20px;
}
</style>
</head>

<body ng-app="loginApp" ng-controller="loginAppCntrl">

<h1>Angular JS Login Form</h1>
<form name="loginForm" ng-submit="submitForm()">
```

```

Enter the User Name:<input type="text" name="userName"
ng-model="userName" ng-minlength="5" ng-maxlength="8" required
placeholder="EnterUser Name">
<span class="error-message"
ng-show="loginForm.userName.$error.required &&
loginForm.userName.$dirty">UserName is Required</span>
<span class="error-message"
ng-show="loginForm.userName.$error.minlength">Minimum Length
Must be 5</span>
<span class="error-message"
ng-show="loginForm.userName.$error.maxlength">Maximum user
name length is limitedto 8</span>
<br/>
<br/>
Enter the Password: <input type="password" name="password"
ng-model="password" ng-minlength="5" ng-maxlength="8" required
placeholder="Enteryour password">
<span class="error-message" ng-
show="loginForm.password.$error.required&&
loginForm.password.$dirty">Password is required</span>
<span class="error-message"
ng-show="loginForm.password.$error.minlength">Minimum
Password length is 5</span>
<span class="error-message"
ng-show="loginForm.password.$error.maxlength">Maximum
password length is limitedto 8</span>
<br/>
<br/>
<button type="submit" ng-disabled="loginForm.$invalid"ng-
click="login()" id="loginButton">Login</button>

</form>
</body>
</html>

```

11. Create AngularJS application to convert student details to Uppercase using angular filters.

Note: The default details of students may be included in the program.

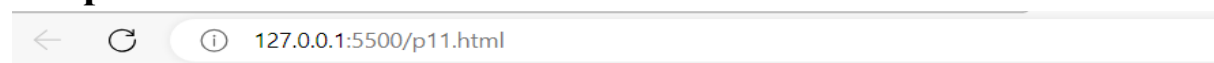
```
<!DOCTYPE html>
<html>
<title>Student Details in Uppercase</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("studDetailsUpperApp",[]);
app.controller("studDetailsUpperAppCntrl",function($scope){
$scope.studDetails=['harish','kumar','chetan','prashanth','thanuja']
$scope.upper=true
$scope.lower=false
$scope.Lower=function()
{
//console.log('called')
$scope.upper=false
$scope.lower=true
}
$scope.Upper=function()
{
$scope.upper=true
$scope.lower=false
}
});
</script>
</head>
<body ng-app="studDetailsUpperApp">
<h1>Student Details in Uppercase</h1>
```

```

<div ng-controller="studDetailsUpperAppCntrl">
<button ng-click="Upper()">Upper</button>
<button ng-click="Lower()">Lower</button>
<table border="1">
<tr>
<th>SLNO</th>
<th>NAME</th>
</tr>
<tr ng-repeat="student in studDetails">
<td>{{ $index+1 }}</td>
<td ng-show="upper">{{ student|uppercase }}</td>
<td ng-show="lower">{{ student|lowercase }}</td>
</tr>
</table>
</div></body>
</html>

```

Output:



Student Details in Uppercase

Upper	Lower
SLNO	NAME
1	HARISH
2	KUMAR
3	CHETAN
4	PRASHANTH
5	THANUJA

12. Create an AngularJS application that displays the date by using date filter parameters.

```
<!DOCTYPE html>
<html>
<title>Date Application</title>
<head>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min
.js">
</script>
<script>
var app=angular.module("dateApp",[]);
app.controller("dateAppCntrl",function($scope){
$scope.currentDate=new Date();
});
</script>
</head>
<body ng-app="dateApp">
<h1>Date in different formats</h1>
<div ng-controller="dateAppCntrl">
Current Date and Time: {{currentDate}}<br/> Short Date:
{{currentDate|date: 'short'}}<br/>
Long Date: {{currentDate |date: 'fullDate'}}<br/>Medium
Date:{{currentDate| date: 'medium'}}
</div>
</body>
</html>
```

Output:

← ↻ ⓘ 127.0.0.1:5500/p12.html

Date in different formats

Current Date and Time: "2024-01-31T04:04:14.558Z"

Short Date: 1/31/24 9:34 AM

Long Date: Wednesday, January 31, 2024

Medium Date: Jan 31, 2024 9:34:14 AM