Practical-04

Title: -Write a program to create and implement modules and controllers in AngularJS.

Programs:

Main.js

```
var AdditionApp = angular.module('AdditionApp',[]);

AdditionApp.controller('DemoAddController', function($scope) {

   $scope.add = function() {

      $scope.n1=Number($scope.num1);

      $scope.n2=Number($scope.num2);

      return $scope.n1 + $scope.n2;

   };

});


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

SubtractionApp.controller('DemoSubController', function($scope) {

   $scope.sub = function() {

      $scope.n1=Number($scope.num1);

      $scope.n2=Number($scope.num2);

      return $scope.n1 - $scope.n2;

   };

});


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

MultiplicationApp.controller('DemoMulController', function($scope) {

   $scope.mul = function() {

      $scope.n1=Number($scope.num1);

      $scope.n2=Number($scope.num2);
```

```
      return $scope.n1 * $scope.n2;

   };

});



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

DivisionApp.controller('DemoDivController', function($scope) {

   $scope.div = function() {

      $scope.n1=Number($scope.num1);

      $scope.n2=Number($scope.num2);

      return $scope.n1 / $scope.n2;

   };

});
```

add.html

```html
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <title>Addition</title>
   <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js"></script>
   <script src="main.js"></script>
</head>
<body>
<div ng-app = "AdditionApp" ng-controller="DemoAddController">
   First Number:
   <input type="text" ng-model="num1">
   <br><br>
   Second Number:
   <input type="text" ng-model="num2">
   <br><br>
   Addition :{{add()}}
</div>
</body>
</html>
```

sub.html

```html
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <title>Subtraction</title>
   <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js"></script>
   <script src="main.js"></script>
</head>
<body>
<div ng-app = "SubtractionApp" ng-controller="DemoSubController">
   First Number:
   <input type="text" ng-model="num1">
   <br><br>
   Second Number:
   <input type="text" ng-model="num2">
   <br><br>
   Subtraction :{{sub()}}
</div>
</body>
</html>
```

mul.html

```html
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <title>Multiplication</title>
   <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js"></script>
   <script src="main.js"></script>
</head>
<body>
<div ng-app = "MultiplicationApp" ng-controller="DemoMulController">
   First Number:
   <input type="text" ng-model="num1">
   <br><br>
   Second Number:
   <input type="text" ng-model="num2">
   <br><br>
   Multiplication :{{mul()}}
</div>
```
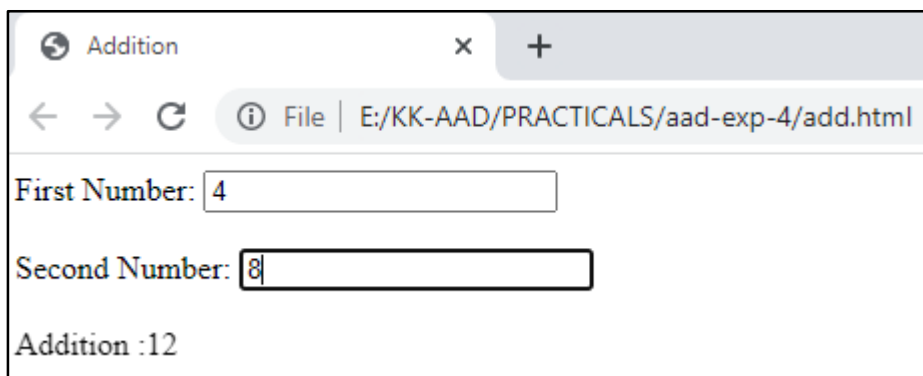
</body>
</html>

div.html
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <title>Division</title>
   <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js"></script>
   <script src="main.js"></script>
</head>
<body>
<div ng-app = "DivisionApp" ng-controller="DemoDivController">
   First Number:
   <input type="text" ng-model="num1">

   Second Number:
   <input type="text" ng-model="num2">

   Division :{{div()}}
</div>
</body>
</html>

Output:

Subtraction
File | E:/KK-AAD/PRACTICALS/aad-exp-4/sub.html
First Number: 7
Second Number: 3
Subtraction :4

Multiplication
File | E:/KK-AAD/PRACTICALS/aad-exp-4/mul.html
First Number: 10
Second Number: 2
Multiplication :20

Division
File | E:/KK-AAD/PRACTICALS/aad-exp-4/div.html
First Number: 9
Second Number: 2
Division :4.5

Conclusion: