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

<html ng-app="mathApp">

<head>

<title>AngularJS Math Operations</title>

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

</head>

<body ng-controller="mathController">

<h2>Math Operations</h2> Enter a Number:

<input type="number" ng-model="inputNumber" />

<button ng-click="calculateFactorial()">Calculate Factorial</button>

<button ng-click="calculateSquare()">Calculate Square</button>

<p ng-show="factorialResult !== undefined">Factorial: {{ factorialResult }}</p>

<p ng-show="squareResult !== undefined">Square: {{ squareResult }}</p>

<script>

var app = angular.module('mathApp', []); app.controller('mathController', function ($scope) {

$scope.calculateFactorial = function () { if ($scope.inputNumber >= 0) {

$scope.factorialResult = factorial($scope.inputNumber);

} else {

$scope.factorialResult = 'Cannot calculate factorial for negative numbers';

}

};

$scope.calculateSquare = function () {

$scope.squareResult = $scope.inputNumber \* $scope.inputNumber;

};

function factorial(n) { if (n == 0 || n == 1) {

return 1;

} else {

return n \* factorial(n - 1);

}

}

});

</script>

</body>

</html>

**Sample Output:**

