**Ex5FDS FULLSTACK**

<!DOCTYPE html>

<html lang="en" ng-app="calculatorApp">

<head>

<meta charset="UTF-8">

<title>Scientific Calculator</title>

<style>

body {

display: flex;

justify-content: left;

align-items: left;

height: 100vh;

margin: 0;

}

.calculator-container {

text-align: left;

max-width: 400px;

}

body{

background-image: url(background.jpg);

background-repeat: no-repeat;

background-attachment: fixed;

background-size: 100% 100%;

}

</style>

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

<script>

angular.module('calculatorApp', [])

.controller('CalculatorController', function($scope) {

$scope.result = 0;

$scope.operation = "";

$scope.memory = null;

$scope.num1 = null;

$scope.num2 = null;

$scope.addToMemory = function() {

$scope.memory = $scope.result;

};

$scope.clearMemory = function() {

$scope.memory = null;

};

$scope.calculate = function() {

var num1 = parseFloat($scope.num1);

var num2 = parseFloat($scope.num2);

if($scope.operation === '+') {

$scope.result = num1 + num2;

} else if($scope.operation === '-') {

$scope.result = num1 - num2;

} else if($scope.operation === '\*') {

$scope.result = num1 \* num2;

} else if($scope.operation === '/') {

$scope.result = num1 / num2;

} else if($scope.operation === 'sqrt') {

$scope.result = Math.sqrt(num1);

} else if($scope.operation === 'sin') {

$scope.result = Math.sin(num1);

} else if($scope.operation === 'cos') {

$scope.result = Math.cos(num1);

} else if($scope.operation === 'tan') {

$scope.result = Math.tan(num1);

} else if($scope.operation === 'exp') {

$scope.result = Math.pow(num1, num2);

}

};

});

</script>

</head>

<body>

<div ng-controller="CalculatorController">

<h1>AngularJS Scientific Calculator</h1>

<input type="number" ng-model="num1" placeholder="Enter number1"><br>

<input type="number" ng-model="num2" placeholder="Enter number2"><br>

<select ng-model="operation">

<option value="+">+</option>

<option value="-">-</option>

<option value="\*">\*</option>

<option value="/">/</option>

<option value="sqrt">Square Root</option>

<option value="sin">Sin</option>

<option value="cos">Cos</option>

<option value="tan">Tan</option>

<option value="exp">Exponentiation</option>

</select><br>

<!-- <input type="number" ng-model="num2" placeholder="Enter second number" ng-if="operation === 'exp'"><br> -->

<button ng-click="calculate()">Calculate</button><br>

<h2>Result: {{result}}</h2>

<button ng-click="addToMemory()">M+</button>

<button ng-click="clearMemory()">MC</button>

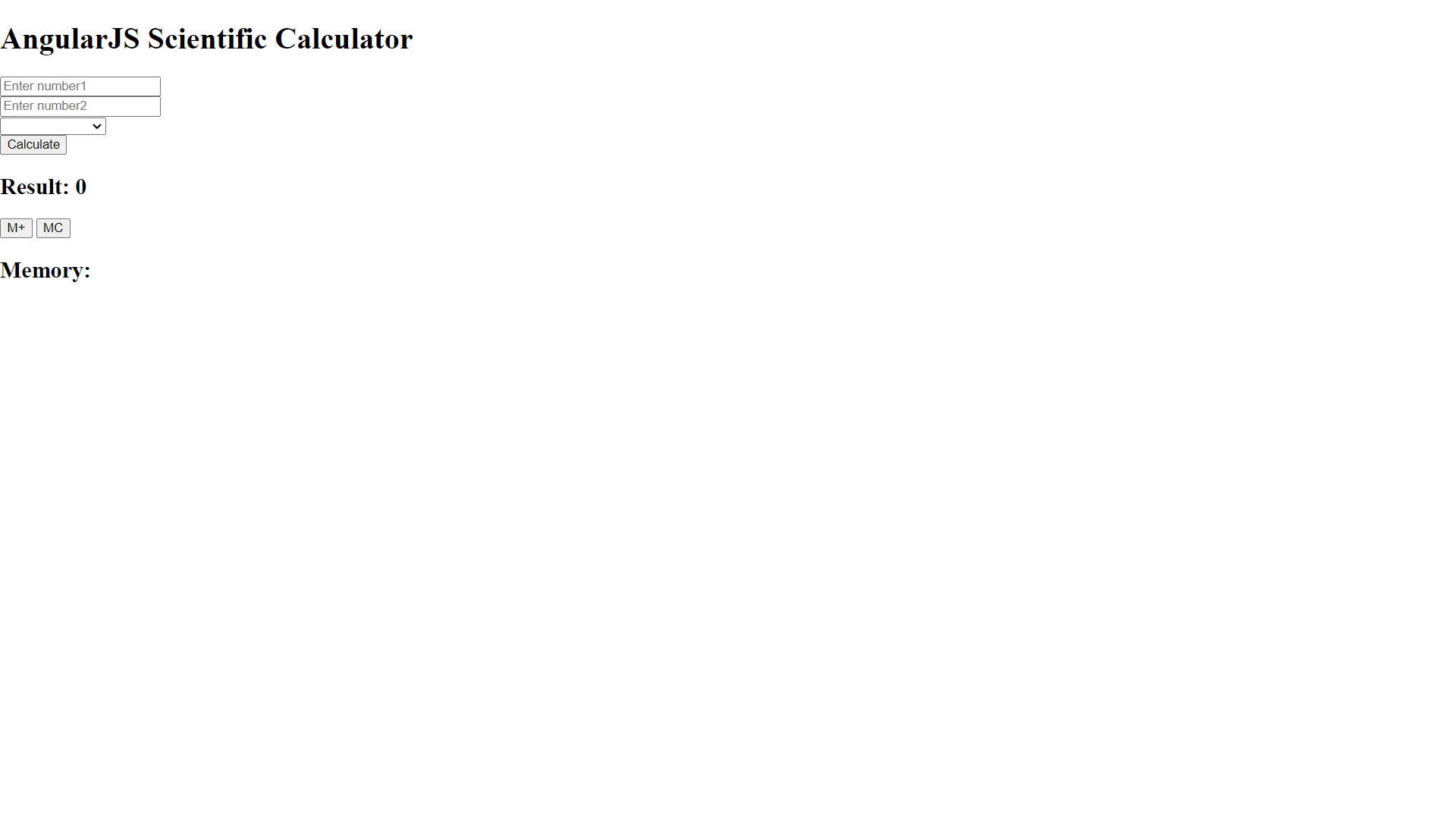
<h2>Memory: {{memory}}</h2>

</div>

</body>

</html>

**Output:**

****