**Assignment 🡪 ng-Controller Directive**

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**ng Controller:**

1. The ngController directive attaches a controller class to the view. This is a key aspect of how angular supports the principles behind the Model-View-Controller design pattern.

1. Syntax as an element : <ng-controller

ng-controller=”expression”>

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</ng-controller>

1. Syntax as an attribute : <Any

ng-controller=”expression”>

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</Any>

### Arguments :

| **Param** | **Type** | **Details** |
| --- | --- | --- |
| ngController | expression | Name of a constructor function registered with the current $controllerProvider or an expression that on the current scope evaluates to a constructor function.  The controller instance can be published into a scope property by specifying  ng-controller="as propertyName". |

1. MVC components in angular:

Model — Models are the properties of a scope; scopes are attached to the DOM where scope properties are accessed through bindings.

View — The template (HTML with data bindings) that is rendered into the View.

Controller — The ngController directive specifies a Controller class; the class contains business logic behind the application to decorate the scope with functions and values

1. We can also attach controllers to the DOM by declaring it in a route definition via the $route service. A common mistake is to declare the controller again using ng-controller in the template itself. This will cause the controller to be attached and executed twice.
2. This directive creates new scope.

This directive executes at priority level 500.

1. Using controller as makes it obvious which controller you are accessing in the template when multiple controllers apply to an element.
2. If you are writing your controllers as classes you have easier access to the properties and methods, which will appear on the scope, from inside the controller code.
3. Any changes to the data are automatically reflected in the View without the need for a manual update.

**Example:**

**Html Code:**

<!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>Document</title>

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

    <script src="controllerEx.js"></script>

</head>

<body>

    <div ng-app="myApp">

        <div ng-controller="updateCtrController">

            <p> Counter inside the controller : {{ctr}}</p>

            <input type="button" value="-" ng-click="subCtrEventHandler()"/>

            <span>Counter : {{ctr}}</span>

            <input type="button" value="+" ng-click="addCtrEventHandler()"/>

        </div>

      </div>

</body>

</html>

**Javascript Code:**

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

myApp.controller("updateCtrController",

function updateCtrController($scope)

{

    var myCtr=0;// model

    $scope.ctr=myCtr;

    $scope.subCtrEventHandler=function (){

        $scope.ctr--;

    }

    $scope.addCtrEventHandler=function(){

        $scope.ctr++;

    }

})