Different properties of directive :

**a1)**restrict**a2)**scope **a3)**template a4)templateUrl a5)controller a6)link

Use it with attribute | ‘E’, ‘A’, class | restrict : ‘C’, comment | ‘M’ | replace : ‘true’

restrict  |template  | replace

Ref : https://www.sitepoint.com/practical-guide-angularjs-directives/

* Note :replace – This specifies if the generated template will replace the HTML element on which the directive is attached. In our case we have used the directive as <hello-world></hello-world>, and replace is set to true. So, after the directive is compiled, the produced output template replaces <hello-world></hello-world>. The final output is <h3>Hello World!!</h3>. If you set replace to false, the default, the output template will be inserted into the element on which the directive is invoked.

**9a)**Create a new custom directive with company details .

employee\_id, employeefirstname ,employeelastname, salary

**9a1)**Create a simple directive with link events as mouseover,mouseout.Change the color of paragraph tag. Inside the mouseover do **scope.$apply** to change the scope value. Change last\_name by Modi. Also use scope.$watch for checking any change in the scope variable last\_name. If yes then display some message with console.log

elem.bind('click', function() {

elem.css('background-color', 'white');

scope.$apply(function() {

scope.color = "white";

});

**9a2)**Add the scope.$apply for background-color,color on mouseover and out.

Also give pointer (hand) on mouseover.

**element.css(‘cursor’,’pointer’)**

Note :The link function is mainly used for attaching event listeners to DOM elements, watching model properties for changes, and updating the DOM.

9a3)Write a directive such that initialize the $scope.carsPrint every cars in li tag with strong tag through directive. Take restrict as ‘A’,’C’

Css : font-size , color

<li ng-repeat="x in movies">

<my-directive name='{{x}}'></my-directive>

</li>

</ul>

First : use the ‘@’ scope tag

**9a4)**Create a directive superman so that it will alert ‘I am superman’. There should be no parameter to the link function. Again make two directive with **superman** and **stronger** .<span superman stronger></span>.Both will alert something..

**Ref :**<https://egghead.io/lessons/angularjs-isolate-scope-two-way-binding>

9a5)Write a script by making use of $watch . Create a form for the employee containing emp\_first\_name, emp\_last\_name, emp\_sal . Add button so that it can be pushed to the array.When the size os array increases greater then 5 the make the table background as red.

**Splitting the scope** :

All are isolate scope :

* @ - pass by value (attribute binding)
* & - pass by method (expression binding)
* = - pass by reference (two-way data binding)

*Ref : https://thinkster.io/egghead/isolate-scope-am*

**Isolate Scope @**

Q1)Create a directive for first assigning the flavor through the tag itself like <myDirective flavor=”Vanila”>, later on do it with the help of **Scope @**.

Again the flavor from the controller.like : <myDirective flavor=”{{mtTest}}”>. myTest is initializing from the controller.

**Isolate scope =**

Application :

Q1)Makea application to add any item to the list and remove it using splice(x,1);

**if ($scope.products.indexOf($scope.addMe) == -1) {**            $scope.products.push($scope.addMe);  
**} else {  
            $scope.errortext = "The item is already in your shopping list.";  
        }**

9a3)angular directive compile phase : <https://www.bennadel.com/blog/2794-when-do-you-need-to-compile-a-directive-in-angularjs.htm>

Note :link and compile do not work together.

In the directive definition object, if you **only** define link, that's like shorthand for having an empty compile function with an empty preLink function with your code in the postLink function. As soon as you define compile, link is ignored by angular, because compile should return the linking functions.

If you only return one function from compile, then it'll be executed **post** link.

Or, put differently, link is just a shortcut to the postLink function that gets called after the scope has been linked by compile.

10)Write an angular script for the email validation.Make a form and then an email textfield.validate email with

**Application status : directive can provide the status of the application data.(invalid,dirty,touched,error)**

Updating last line..