**Day – 2 (Session - 1)**

1. Angular JS Watches

**which covers the following**

* What is AngularJS Watcher (or watch).
* What is $watch and why is it necessary.
* What is watch listener.
* How is $watch used.
* How to monitor watch counts.
* How to use ng-change.
* Differences between $watch vs. $watchCollection vs. $watchGroup.
* Various types of AngularJS Watches.
* What is deep watch or Equality watch.
* Can I have multiple watches?.
* Reference watch vs. Equality watch vs. Collection watch

**Highlights**

1. Angular JS Digest Cycle

**which covers the following**

* What is AngularJS Watch and Watch list.
* How are scopes associated to Watch list.
* What is Angular Context.
* What is digest cycle.
* What are digest iterations (min and max).
* When are Watch listeners executed.
* What is digest process / phase in Angular JS.
* When does digest process kick in.
* What events may kick in digest process.
* How are digest process / iterations, watch list and scope related.
* At what point DOM gets updated / rendered.
* What is Event loop

**Highlights**

* What is $apply.
* What is $digest.
* $apply vs $digest.
* When is Angular JS digest cycle invoked and when not.
* How to kick-in Angular JS digest cycle manually.
* How to work with events external to Angular JS (Context).
* How to modify scope variables from jQuery (or external) events.
* How to update DOM when scope variables are modified outside Angular JS (Context).
* How to update DOM when using jQuery events in Angular JS.
* Using $apply and $digest in Custom Directives.
* How do $apply and $differ in ng-repeat

1. Compile And Link part 1

**Highlights**

* What is Compile in Angular JS
* What is Linking in Angular JS
* What are various phases and steps in Angular JS Compile & Link
* What are Pre-Link and Post-Link functions in Angular JS
* How to work with Compile, Pre-Link and Post-Link functions
* How is Controller in Directive related to Compile and Link
* What are templates and instances in Directive Compilation and Linking
* Understanding the workflow of Compiling and Linking in Angular JS directives
* How are nested directives (child elements) compiled and linked in Angular JS Application
* How to access attributes in Compile, Controller, Pre-Link and Post-Link functions
* Do's and Don'ts of Compile in Angular JS Directive
* Do's and Don'ts of Controller in Angular JS Directive
* Do's and Don'ts of Pre-Link in Angular JS Directive
* Do's and Don'ts of Post-Link in Angular JS Directive
* Various ways on using Compile and Link functions in Angular JS.
* How does ng-repeat work with custom directives.
* How to manipulate DOM (template DOM) using Compile function in Angular JS.
* How to manipulate DOM (instance DOM) using Post Link function in Angular JS.
* How to attach/handle events using Post Link Function  in Angular JS.
* How to provide event handling functions to Post Link using Directive Controllers.
* How to access interpolated attribute expressions in Compile and Link functions.
* How to use $interpolate to interpolate binding expressions (or strings) in Angular JS