Objective

★ Know, What is Jasmine?

★ Know, What is Karma?

★ Create Angular Project and execute sample test.

What is Jasmine?

★ Jasmine is an open source testing framework for JavaScript.

★ Jasmine is a Behavior Driven Development testing framework
  ○ In BDD tests are written in non- technical language that everyone can understand.
  ○ BDD focuses more on testing the behaviour of code instead of implementation.

★ It does not require any other JavaScript framework.

★ Jasmine has easy to read syntax, making it easy to understand.

★ Jasmine supports asynchronous testing.

★ Jasmine has test double functions called spies, A spy can stub any function and track all calls to it and its argument.

What is Karma?

★ Karma is a open source test runner for JavaScript created by Angular Team.

★ Karma can be easily integrated into your project and makes it easy to execute test using CLI.

★ Karma is useful for executing the test on browsers, other devices like phone, tablets

★ Karma can be configured with different test frameworks including Jasmine, Mocha, QUnit.

★ Karma can be configured with Continuous Integration tools like Jenkins, Travis or Semaphore.

Objective

★ To know, How Karma & Jasmine are configured with Angular

★ What is the role of Karma.conf.js?

★ What is the role of test.ts?

Objective

★ Test Strings using matchers:
  ○ toBe
  ○ toEqual
  ○ toContain
  ○ toMatch
★ Difference between toBe & toEqual
★ Test Arrays using matchers:
  ○ toEqual
  ○ toContain
★ How to exclude test cases from execution.