Phase 5 :

Testing, Devops and deployments

Testing using TestNG Framework

Selenium Automation testing tool

Docker

CI and CD tool with Jenkin

Overview of Kubernetes

Cloud computing using AWS : S3, EBS and EC2 instance

In phase 3 : jUnit testing (jUnit 5)

Testing : Testing is use to find the defect or error or bugs in the application.

Running the application using any technologies means indirectly we are testing the application.

Read a, b

Compute sum = b+b

Write b

Testing the function functionality without main method is known as testing.

TestNG TestNG is an open source testing framework inspired from Junit and NUnit. In TestNG Ng means next generation. It is light weighted framework.

Compared to Junit testing framework

1. They provided more meaning full annotation in TestNG
2. It support parallel testing.
3. It provided default testing report in the form of HTML.
4. It support group of test.
5. It support priority base test.

Junit testing mainly use for unit testing.

TestNG framework mainly use unit testing as well as integration testing with one of the automation tools ie Selenium.

Test case : It is type of class which contains more than one test function which help to test function functionality. Inside that class we can write more than one method with @Test Annotation.

Test suite : test suite is use to execute more than one test case class. In Junit we need to make normal java class with annotation to run the test suite. In TestNG provide test suite using xml file.

Assertion : inside test we can use more than one assertion method which help to check actual and expected output.