01

Junit Unit Testing

WHAT WILL YOU LEARN?

* What is Unit Testing and Why?
* What is Junit
* Junit Annotations
* Junit Architecture
* Junit Assertions

What is Unit testing and why?

* UNIT TESTING is a type of software testing where individuals units or component of a software
* The purpose is to validate that each unit of the software code performs as expected
* Unit testing done in development phase of an application by developer
* Unit test Is isolate section of code and verify it correctness
* A unit may be an individual function , method ,procedure, module , or object.

What is Junit?

* Junit Is a free and open source Unit Testing framework for java application
* Junit developed by Kent Beck and Erich Gamma.
* Its first version was released in 1997.
* It become one of the most popular framework in the java community ease of use.
* It is lightweight testing framework which allowed java developers to write unit test cases in java language.
* The current version is unit 5

Junit Annotations

* @Test
  + It is used to mark a method as a junit test.
* @BeforeAll (it required static method)
  + The annotated method will be run before all test methods in the test class. This method must be static.
* @AfterAll (it required static method)
  + The annotated method will be run after all test methods in the test class. This method must be static.
* @ParametrizedTest
* @ValuSource
* @CSVSource
* @BeforeEach
  + The annotated method will be run before each test method in the test class.
* @AfterEach
  + The annotated method will be run after each test method in the test class.
* @DisplayName
  + Used to provide any custom display name for a test class or test method
* @Disable
  + It is used to disable or ignore a test class or test method from the test suite.
* @Nested
  + Used to create nested test classes