**Dynamic Tests in Junit**

Dynamic testing is a new programming model introduced in JUnit 5

The standard tests annotated with @Test annotation are static tests which are fully specified at the compile time.

**A DynamicTest is a test generated during runtime**. These tests are generated by a factory method annotated with the @TestFactory annotation.

The DynamicTests are executed differently than the standard @Tests and do not support lifecycle callbacks.

Let us look at an example of dynamic tests

@TestFactory

Collection<DynamicTest> **dynamicTestsWithCollection**() {

**return** Arrays.asList(

DynamicTest.dynamicTest("Add test",

() -> assertEquals(2, Math.addExact(1, 1))), DynamicTest.dynamicTest("Multiply Test",

() -> assertEquals(4, Math.multiplyExact(2, 2))));

}

The @TestFactory method tells JUnit that this is a factory for creating dynamic tests. As we can see, we’re only returning a Collection of DynamicTest

The dynamic tests can be iterable, iterator or a stream type.