**Lab03: JUnit for Unit Test**

1. **Target**

* To be familiar with the IDE: IntelliJ IDEA
* To understand Java's **annotations**
* To understand the basic concept of **Unit Test**
* To be familiar with Unit Test skills with [JUnit](https://junit.org/junit4/) **4 or** [**JUnit**](https://junit.org/junit4/) **5**:
* JUnit 4/5 Configuration in your IntelliJ IDEA.
* To know about **Maven** and Maven-based Project
* To understand how to **add dependencies** by Maven
* Master Assert Functions, e.g., assertEquals, assertNotNull, assertTrue, assertFalse.
* To understand **Timeout Testing** and **Exception Test**
* To understand **Parameterized Test**

1. **Tools**

* IDE: IntelliJ IDEA
* Programming Language: Java / Python

1. **Tasks**

**3.1 Task 01: Terminology Illustration**

Please READ junit.pdfand illustrate the following Terminologies about Unit Test:

1. What’s test suite?
2. What’s test case?
3. What’s unit test?
4. What’s test fixture?
5. **Annotations**. JUnit 4.0 uses **annotations** rather than special names for setting up, tearing down and testing. Please list the mainly used **annotations** in JUnit 4.0.
6. **Assert Statement**. There are two forms of the assert statement. Please illustrate what they are.