Handson7: Setting Up JUnit in a Java Project

Steps we need to understand before setting up everything:

First, we need to set up JUnit in your Java project to start writing unit tests.

To understand the process of setting up JUnit in a Java project and writing unit tests using Maven and IntelliJ IDEA.

Tools & Environment Used:

- Java JDK 17
- IntelliJ IDEA Community Edition
- Maven builds tool
- JUnit 4.13.2
- Operating System: Windows 10

Step 1: Create a Maven Project in IntelliJ

- Open IntelliJ → New Project → Select Maven
- Choose Archetype: maven-archetype-quickstart
- Set GroupId and ArtifactId (e.g., com.xyz/p1)
- Project structure was auto-generated with src/main/java and src/test/java

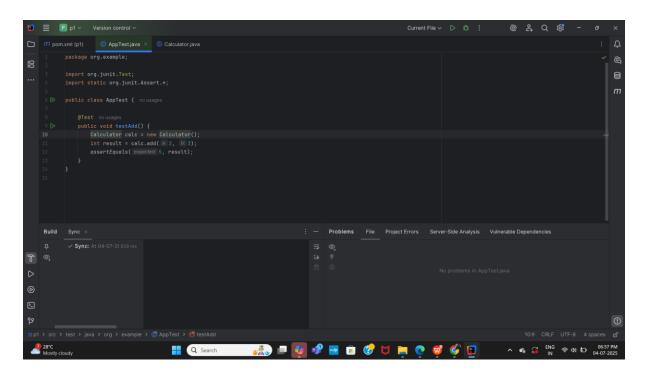
Folder structure:



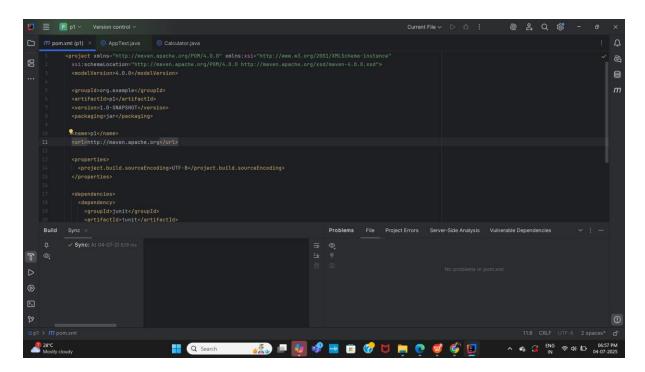
key takeaways:

- Set up a **Java project using Maven** in an IDE like IntelliJ IDEA.
- Understand the importance of **dependency management** using Maven (pom.xml).
- Successfully add and configure the **JUnit testing framework** to the project.
- Write a unit test to validate a simple method using @Test and assertEquals.
- Solve common beginner issues like:
 - Class not matching file name
 - Missing dependencies
 - Maven not syncing properly
- Realize the value of testing code in **smaller components** (**unit testing**) to ensure quality.

Output:



1.Green icon of successful build



Pom file

