**Best Practice for Using GIVEN/WHEN/THEN/AND/BUT**

Given: Preconditions are mentioned in the Given Keyword. The Steps of the Given Keyword put the system in to a known stat, which is necessary for the user action. Avoid talking about user interaction in Given steps.

When: The purpose of When Steps is to describe the user action.

Then: The purpose of Then Steps is to observe the expected output. The observations should be related to the business value/benefit of your feature.

And: This is used for statements that are an addition to the previous Steps and represent positive statements.

But: This is used for statements that are an addition to previous steps and represent negative statements.

In a Step Definitions file, And and But are listed as Given/When/Then, the keyword that they appear after. There are no And and But keywords in Step Definitions.

**Maven Commands**

**Copy project path** – Right click on **Project**, click on **Properties,** and get path from **Location.**

Open command prompt and change path to the project

**Execute following command**

**mvn verify** - This step runs checks to verify that the project is valid and meets the quality standards.

**mvn clean -** Cleans the project and removes all files generated by the previous build.

**mvn compile** - Compiles source code of the project.

**mvn test-compile** Compiles the test source code.

**mvn test** - Runs tests for the project.

**mvn package** - Creates JAR or WAR file for the project to convert it into a distributable format.

**mvn install** - Deploys the packaged JAR/ WAR file to the local repository.

**mvn deploy** - Copies the packaged JAR/ WAR file to the remote repository after compiling, running tests and building the project.