**Maven**

Maven = Maven is a project management tool. It complete total build cycle.

POM = Project Object Model

POM Structure:

1. Project = Project name and different scheme location.
2. Model version = Default 4.0.0
3. Group ID = organization name or Group Name (Tag)
4. Artefact ID = Library name
5. Packing = JAR, WAR, EAR
6. Version No. = Project version No (Product release version)
7. Name = Application Name.

<! --- Parent Module --->

1. Dependency Management = Like a parent or Container

< --- Sub Modules --- >

1. Dependency =
   1. Group ID
   2. Artefact ID
   3. Version
   4. Scope

< --- Build --- >

1. Plugin management = Specify required Plugins
2. Fina Name = Final Name of JAR, WAR, EAR

**# Maven Life Cycle: -**

1. Clean = Clean up the target folder. [wash out all the class files, resources, all the necessary files]
2. Validate = It goes through XML tags, it checks different profiles, whether the dependencies are correctly mentioned and it also check necessary process of the life cycle mentioned to complete the build process.
3. Compile = Compile is a stage where all our source code is compiled. Basically, all source codes get converted into the binary code or class files. All this are moved to the target folder as a port of the compile stage.
4. Test = As a part of the test life cycle all the tests will be run.
5. Package = Package is where all the compiled codes are now zipped or compressed into format which like JAR, WAR, EAR
6. Verify = Verify is to check if the packages are all perfectly packed in a right standard format or not. And also, check peoples will be able to unzip the JAR, WAR, EAR in the right format.
7. Install = Install move packages form target folder to the local repository.
8. Site = Prepare the documentation
9. Deploy = Copy JAR, WAR, EAR file from local repository to remote repository.

# Maven Setting.xml File locations?

Maven have 2 setting.xml files.

1. ( maven.home ) /conf/setting.xml
2. ( User.home ) .m2/setting.xml

# How to run test classes in maven?

By using “SURE-FIRE PLUGIN”. Install it and config it and enter test command in “Property Name“ location.

# Maven Commands

mvn -version # Show the Maven version.

/usr/local/maven # MAVEN\_HOME

Maven integration # Maven Plugin

3.5.3 # Maven latest version

3.5.0 # Maven using version

# How to skip maven test cases or unit test cases?

Jenkins + Buld + Maven Goles

cleane, -Dskiptest=True, install

User acceptance test

https://www.youtube.com/watch?v=UMLXKId7KkA