

## **TOPIC : MAVEN COMMANDS**

**NAME : MULAGADA DILEEP KUJMAR**

### **Basic Commands**

#### **mvn clean**

Removes all compiled files and target directories.

#### **mvn compile**

Compiles the source code of the project.

#### **mvn test**

Runs the test cases in the project.

#### **mvn package**

Packages the compiled code into a distributable format (such as a JAR or WAR file).

#### **mvn install**

Installs the packaged project into the local repository.

#### **mvn deploy**

Deploys the packaged project to a remote repository.

### **Project Lifecycle Commands**

#### **mvn validate**

Validates the project and ensures all required resources are available.

#### **mvn verify**

Runs integration tests to verify the build integrity.

#### **mvn site**

Generates project documentation.

### **Dependency Management Commands**

#### **mvn dependency tree**

Displays the dependency tree of the project.

#### **mvn dependency list**

Lists all dependencies of the project.

#### **mvn dependency analyze**

Analyzes and suggests optimizations for dependencies.

### **Plugin and Goal Commands**

#### **mvn help effective pom**

Displays the effective POM file with all inherited configurations.

**mvn help describe**

Describes the details of a Maven plugin or goal.

**mvn versions update parent**

Updates the parent version in the project POM file.

**mvn versions update dependencies**

Updates all dependencies to the latest versions.

**Running Applications****mvn exec java**

Runs a Java class with the specified main method.

**mvn spring boot run**

Runs a Spring Boot application.

**Skipping Tests****mvn install -dskip tests**

Skips test execution while installing.

**mvn package -dskip tests**

Skips test execution while packaging.

**Cleaning and Building****mvn clean install**

Cleans, compiles, tests, packages, and installs the project.

**mvn clean package**

Cleans and then packages the project.

**Custom Profiles****mvn package -p profile name**

Builds the project using a specified profile.

**mvn verify -p profile name**

Verifies the project using a specified profile.

**Debugging****mvn -x command**

Runs Maven in debug mode.

**mvn help help**

Displays help documentation for Maven.