1. verify maven installation

```
mvn -version
```

description: checks if maven is installed and displays the installed version.

2. create a new maven project

```
mvn archetype:generate -DgroupId=com.example -DartifactId=myapp -
DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
```

description: generates a simple maven project using the quickstart archetype.

3. compile the project

```
mvn compile
```

description: compiles the source code of the project.

4. clean the project

```
mvn clean
```

description: removes the target directory and cleans the project.

5. package the project

```
mvn package
```

description: compiles the code and packages it into a jar or war file.

6. install the package locally

```
mvn install
```

description: installs the package into the local repository for use as a dependency.

7. run unit tests

```
mvn test
```

description: runs the unit tests of the project.

8. run the project

```
mvn exec:java -Dexec.mainClass=com.example.App
```

description: runs a java application with the specified main class.

9. skip unit tests during build

```
mvn install -DskipTests
```

description: skips running unit tests while building the project.

10. update dependencies

```
mvn dependency:resolve
```

description: resolves and downloads all project dependencies.

11. generate project site

```
mvn site
```

description: generates project documentation based on the project configuration.

12. deploy the project

```
mvn deploy
```

description: deploys the project to a remote repository for sharing with other developers.

13. check for dependency updates

```
mvn versions:display-dependency-updates
```

description: displays the dependencies that have newer versions available.

14. list all available goals

```
mvn help:describe -Dplugin=help
```

description: lists all available goals of a specified plugin.

15. run maven in offline mode

```
mvn clean install -
```

description: runs maven commands without accessing the remote repositories.