**What is Maven?**

Apache Maven is a software project management and comprehension tool. It is based on the concept of a project object model (POM)

Maven can manage a project's build, reporting and documentation from a central piece of information.

**How to use?**

By using, Maven we build and manage any java based project.

**Alternate for Maven: ANT**

Ant is procedural and need to provide information about what to do and when to do through code. We need to provide order.

There is no life cycle in ANT.

**What is Maven Repository?**

Maven repository is noting but a directory where all the projects jars, library jar, plugins or any other project specific artifacts are stored and can be used by Maven easily.

**Commands of Maven?**

* Maven Clean 🡪 Cleans the project and remove all files generated by the previous build.
* Maven Install 🡪 It will download all the dependency from maven repository.
* Maven Compile 🡪 Compiles source code of the project.
* Maven Test 🡪 Compile the test source code.
* Maven Build 🡪 Validate the project is correct and all necessary information is available.

**How to create Maven?**

1. Create a Project from Maven Template
2. Maven Directory Layout
3. POM file
4. Update POM
5. Write Code
6. Maven Build
7. Run

**What is POM?**

POM 🡪 Project Object Model

It is an XML file that contains information about the project and configuration details used by Maven to build the project.

In POM.xml we need to add jar files under dependencies as dependency.

**What is Artifact Id?**

Artifact id is the Base Package name used in the project.

**What is Group Id?**

Group id is the parameter uniquely identifies your project across all the projects.

**Advantages of Maven?**

1. Jar files are automatically downloaded from repository.
2. Automatically migrate from older version to new version.
3. Very much easy to develop.