1. **What is Maven?**

Maven is a project management and comprehension tool. Maven provides developers a complete build lifecycle framework. Development team can automate the project's build infrastructure in Maven uses a standard directory layout and a default build lifecycle.

1. **What is POM?**

POM stands for Project Object Model. It is an XML file. It always resides in the base directory of the project as pom.xml. It contains information about the project and various configuration details used by Maven to build the project(s).

1. **What is Maven artifact?**

An artifact is a file, usually a JAR that gets deployed to a Maven repository. A Maven build produces one or more artifacts, such as a compiled JAR and a "sources" JAR. That **sources jar** is a **jar** that contains only the **source** code (the . java files) corresponding to the **compiled** artifact.

Each artifact has a group ID (usually a reversed domain name, like com.example.foo), an artifact ID (just a name), and a version string. The three together uniquely identify the artifact. A project's dependencies are also specified as artifacts.

1. **What are the build lifecycles of Maven?**

The three build lifecycles are

* Clean: It cleans up artifacts created by prior builds.
* Default (Build): This is used to build the application.
* Site: It generates site documentation for the project.

1. **What is a goal in Maven terminology?**

A goal represents a specific task which contributes to the building and managing of a project. It may be bound to zero or more build phases.

1. **What is Build Profile?**

A Build profile is a set of configuration values which can be used to set or override default values of Maven build. Using a build profile, you can customize builds for different environments such as Production v/s Development environments.

1. **What are the types of Maven repository?**

Maven repository are of three types: **local, central, remote** →(in some resources central and remote repositories are shown under the same node as remote repositories with central and third party repositories)

1. **What is the command to install a JAR file into your local repository?**

**“mvn install”**

1. **What is the Central Repository?**

It is the repository provided by Maven Community. It contains a large number of commonly used libraries. When Maven does not find any dependency in the local repository, it starts searching in the central repository using the following URL: <http://repo1.maven.org/maven2/>.

1. **What is a Remote Repository?**

Sometimes, Maven does not find a dependency in the local or central repository. Then it stops the build process and outputs an error message to the console. To prevent such situations, Maven provides the concept of Remote Repository which is a developer's or a company’s own custom repository containing required libraries or other project jars.

**The sequence in which Maven searches for dependency libraries is;**

Search dependency in local repository, if not found, search dependency in central repository, if a remote repository has not been mentioned, Maven simply stops the processing and throws error- then search dependency in remote repository or repositories.

1. **Why are Maven Plugins used?**

Maven Plugins are used to;

* create jar file.
* create war file.
* compile code files.
* unit testing of code.
* create project documentation.
* create project reports.

1. **What are the types of Maven Plugins?**

* **Build plugins:** They execute during the build and should be configured under the <build> element of pom.xml file.
* **Reporting plugins:** They execute during the site generation and they should be configured in the <reporting> element of the pom.xml file.