**Maven Fundamentals**

1. Explain what is Maven? How does it work?

# Maven is a project management (POM) tool which is based on Project Object Model in Java. It is used in building Objects, Dependency and documentation.

1. Explain what is POM and its significance

# POM means Project object management, it is an XML file which has the details of the project and configuration details used by Maven to build the project. It is the fundamental unit of work in Maven.

1. Explain what a Maven artifact is?

# Maven artifact is JAR file that gets deployed in Maven repository.

1. List out the dependency scope in Maven?

# Compile, provide, runtime, test, system, and import are the dependency scopes in Maven.

1. List out what are the build phases in Maven?

# Validate, compile, test-compile and test run are the 4 build phases in Maven.

1. Mention the three build lifecycle of Maven?

# Default lifecycle which handles the project deployment,

Clean lifecycle which handles the project cleaning and

Site lifecycle which handles the creation of project site documentation.

1. List out what are the aspects does Maven Manages?

# Maven manages the following aspects

Building, maintenance, Reporting,depemdencies, SCM, Releases, distributionand mailing list.

1. Explain what a Maven Repository is? What are their types?

# Directory where all the project jars, library jars, plugins and all other project articrafts stored is called a Maven repository. There are 3 Maven repository’s, local, central and remote.

1. Explain how you can exclude dependency?
2. For POM what are the minimum required elements?

# Project root, modelversion, group id, and version.