Maven commands :

1. **Project Management**: Maven is a Java project management tool for developers.
2. **Build tool**: Performs all sorts of build tasks e.g. compilation, running tests, packaging into jar/war, deploying to a server etc
3. **Dependency Management**: We do not have to download dependent jars, we just have to declare what dependencies we need. Maven downloads and uses them during any build task.
4. **Best practices build patterns**: Maven is an attempt to apply build patterns to promote productivity and other [charachteristics](https://maven.apache.org/background/philosophy-of-maven.html) by the use of best practices.
5. **Convention over Configuration**: Maven provides reasonable defaults without requiring unnecessary configuration. When a Maven project is created, Maven creates default project structure and build process like compile, test, package or clean steps. User can customize them though.
6. **Plugin-based Architecture**: Maven consists of a core framework which provides basic project-processing capabilities and build-process management, and a host of plugins which are used to execute the actual build tasks. Some plugins are bundled with Maven distribution. We are free to install other non-bundled plugins provided by Maven or third parties. We can even write our own plugins. This is how Maven is expandable with new functionality

mvn' invokes mvn.bat which is located in maven installed bin directory. The is the only part which is mandatory to start maven tasks etc. Another necessary thing is, you have to be in the project directory with a valid pom.xml

1. The syntax for executing a phase: **mvn** **[phase-name]**
2. The syntax for executing a plugin goal: **mvn** **[plugin-name]:[goal-name]**

Creating first project :

Cmd and thn folder :

mvn    archetype:generate   -DgroupId={ project-group-id}   **-** DartifactId={ project-name}   **-** DarchetypeArtifactId= maven-archetype-quickstart   **-** DinteractiveMode= false

**mvn –version**

mvn  compile or mvn compiler:compile

mvn  run or mvn  exec:java -Dexec.mainClass="com.logicbig.App"

Based on the packaging of a project (jar, war, ear, etc), different maven goals will be bound to different phases of the maven lifecycle.