Maven

1. Maven is a Build tool.
2. Maven will help in the development activity. Starting from project template creation till the project execution in every Maven can be used.
3. The project template is also known as **Archetype**.
4. There are different stage in maven which helps in the development activity
5. Maven can compile you code in the **mvn compile** stage
6. Maven can help us to execute the test cases written inside project using **mvn test** stage
7. Maven can help us to create a package of the project using **mvn package** stage
8. Can execute the project using **mvn deploy** stage.
9. Maven will also help to manage the dependencies (jar files) inside project.

**Maven Setup**

1. Download Maven Zip file. (<https://maven.apache.org/download.cgi>)



1. Extract Zip file into any location (Prefer C drive)
2. Setting the environment variable for maven.
   1. **MAVEN\_HOME** : Create a New Variable and set Path of Maven extracted folder



* 1. **M2\_HOME**: Create a New Variable and set Path of Maven extracted folder



* 1. **Path**: Use Existing path variable and create new value inside Path variable

Value Must be: **%M2\_HOME%\bin**

1. Verify Maven Setup

Open a command prompt and use following command **mvn -version**



**Create Maven Project using IDE (Eclipse)**

1. “File” menu -> “New” Option -> select “Maven Project” option.
2. Keep default option as it is on the first page and click on “Next”
3. Search for the Archetype “org.apache.maven”
   1. **maven-archetype-quickstart**: This option is use to get the code java project template
   2. **maven-archetype-webapp**: This option is used to get the web application java project template
4. select an archetype and click on “Next”
5. Provide the following
   1. Group Id: Project package structure
   2. Artifact Id: In the name of the project
   3. Version: Keep the default version as it is.
   4. Package: keep the group id and package name same.
6. Click on “Finish” button

Maven Project Structure  
  


**Maven Dependency Management**  
  


