[Maven - Setup, Build and Deploy](javascript:void(0);)[Scores](javascript:void(0))

**Objectives**

* Explain the need and benefits of Maven
  + Managing dependent libraries, building and deploying project, generate documents from source code, compile source code, create package (jar or war)
    - Ref - https://www.javatpoint.com/maven-tutorial

* Setup maven for command line
  + Zip file extraction, environment variables JAVA\_HOME, MAVEN\_HOME, PATH, mvn -version
    - Ref - https://www.mkyong.com/maven/how-to-install-maven-in-windows/

* Create, build and deploy a maven project
  + archetypes, proxy environment variables, group id, artifact id, central maven repository in internet, local repository location, pom.xml, maven architecture, dependency tree
    - Ref - https://maven.apache.org/guides/introduction/introduction-to-archetypes.html

* Explain the maven build lifecycle
  + clean, validate, compile, test-compile, test, package, install, deploy, goal hierarchy
    - Ref - https://maven.apache.org/guides/introduction/introduction-to-the-lifecycle.html

* Explain the various aspects available in pom.xml
  + groupId, artifactId, version, packaging, dependencies, dependency scope (compile, provided, runtime, test, system), properties, profiles
    - Ref - https://maven.apache.org/pom.html

* Explain the importance of profiles in maven
  + Types of Build Profiles, naming environment specific resources, setting profile in maven settings.xml, profile activation via environment variables
    - Ref - https://www.tutorialspoint.com/maven/maven\_build\_profiles.htm