JDK : Development kit

JRE : Runtime env production server

Code build ?

Code build is a process by which source code is converted into a standalone form that can be run on a particular type of platform.

**How to compile Java application ?**

Step 1 : Create java application.  


Step 2 : Complilation

* $ javac HelloWorld.java It creates HelloWorld.class file

Step 3: Execution

* $ java Helloworld It gives output

**Maven Architecture**

1. **Sets references**: Maven sets up all of its internal references, including the JAR dependency locations, test source, Java source, and whatever other references you have defined specific to your project. These also include project and personal properties files.
2. **Downloads dependencies:** If there are missing dependencies in the local repository, Maven attempts to download these, according to your maven.repo.remote property (which defaults to ibiblio.org/maven).
3. **Updates plug-in dependencies:** Maven updates the class path dependencies with internal dependencies required by installed plug-ins.
4. **Prepares filesystem:** If the target directory has not been created, Maven creates it and populates it with required directories according the plug-in's goals.
5. **Scans files:** Maven scans for package.html in the source tree to exclude automatically.
6. **Builds:** It builds the Java source.
7. **Unit-tests:** It compiles and runs unit tests.
8. **Jars:** It jars classes for deployment and places them in the target directory.

