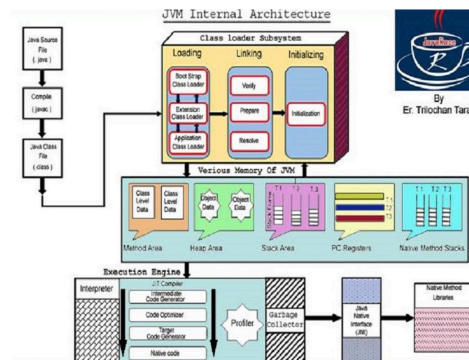


JVM in detail



- let's say we have a java source file (i.e. *test.java*)
 - * then the java compiler *javac* compiles the *test.java* file and generates *test.class* file
 - * this *test.class* file is the *input* of *JVM*
 - ** that mean *JVM* takes *.class* file, then **loads** it and **executes** it
- **JVM** consists of 3 modules :
 - * **class loader subsystem**
 - * **memory area**
 - * **execution engine**

class loader subsystem

- **class loader subsystem** consists of 3 activities :
 - * **loading**
 - * **linking**
 - * **initialising**
 - ** that means it is responsible for **loading**, **linking** and **initialising** the *.class* file
- in **loading activity**, there are 3 types of loaders
 - * **bootstrap class loader**
 - * **extension class loader**
 - * **application class loader**
- **bootstrap class loader** is responsible for loading *class* from *bootstrap class path* (*rt.jar*)
 - * all the *core java API classes* are loading in *bootstrap class loader*

- **extension class loader** is responsible for loading the *classes* present *inside* the *exe* folder
- **application class loader** is responsible to load *application level class path* such as *environment variable* or *environmental class path*
- among these 3 class loaders