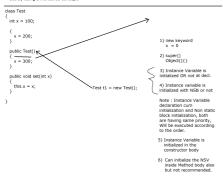
protected:

\* It is an access modifier which is less restrictive than default. The members which are declared with protected access modifier can be accessible from same package as well as outside of the package but by using Inheritance concept.

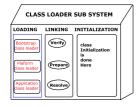


- \* The entire JVM Architecture is divided into 3 sections :
- Class Loader Sub System
   Runtime Data Areas (Memory Areas)
   Execution Engine

- Class Loader Sub System :

  \* It is used to load the .class file into JVM memory so the execution of the program will be started.
- \* In order the load the required .class file into JVM memory, Class loader sub system, internally uses an algorithm i.e "Delegation Hierarchy Algorithm"
- \* Class Loader sub system internally performs the following 3 task

# a) LOADING b) LINKING c) INITIALIZATION



### LOADING :

In order to load the required .class file, JVM makes a request to class loader sub system. The class loader sub system follows delegation hierarchy algorithm to load the required .class files from different areas.

To load the required .class from different area, we have 3 different kinds of class loaders.

- 1) Bootstrap/Primordial class Loader
- 2) Platform/Extension class Loader
- 3) Application/System class Loader

# Bootstrap / Primordial class loader :

- \* It is responsible to load all the predifined .class files OR Java API (Application Programming interface) level .class file into JVM memory.
- \* When we install java software then java software people has provided a jar file (java level zip file which contains number of .class files) called jrt-fs.jar
- \* It loads the .class file from the following path :
  C:\\ Program files \ java \ JDK \ lib \ jrt-fs.jar
  \* It has the highest priority because it is the super class of all the class loaders

## Platform/Extension class loader :

- \* It is used to load the required .class file into JVM which is given by any 3rd party in **jar** file format
- \* It loads the .class file from the following path C:\Program files \underset \unders