Class1 :

All these come under JDK (Java Developemt Kit)

1,Java Complier – will check for the syntax error and convert .java file to .class file / user language to machine coded language. Platform independent (different OS) . only the compiled version is plateform independent (.java file is platform independent). JDK is dependent on platform

2.JVm – Java Virtual Machine (execute the compile file nothing but .class file)

3.JRE- Java Run time Env ( on run time it will refer the keywords)-All libraries will be available in JRE folder. Its is a minimum system component used to execute the java program

4.Javap – Java Profile (it will have .class file that is name of the class, method and constructor)

5.JAR – *Java Archive(ipk, exe, adk, jar, WAR – web application , EAR – enterprise application archive), if we download the selenium it will be JAR file*

*6.JavaDoc – Java Document ( it help to generate the documentation from .class file to HTML file)*

*Java is OOPS*

*Compiler and interpreter*

*Compiler: read everything and then execute*

*Interpreter:read line by line and execute*

*High level language : it will convert the user level language into computer understandable language(0 and 1 ah convert and then it will*

*Low level language:command understand by end user and by computer*

*This is the format:*

1. *JDK*
2. *JRE*
3. *JVM*

*Class name should be starts with Capital*

*Save the file name with class*

*Project name should ne Caps*

*Package name should be in small , reverse of domain name ex(com.google.search)*

*Camal Case (userLoginLogout() )*

*Class Sample {*

*public static void main (String args[])*

*{*

*System.out.println(“This is my first Java program”);*

*}*

*}*

*Steps to create a file in eclipse*

*1.Creation of Java project*

*Click on file menu - > Select New -> Project ->Java ->Java project ->Next->Provide the Project name->Check the Java Version -> Finish*

*2. Creation of Java Package*

*Right click on the project name-> New-> Package->Package name should be in small -> Finish*

*(Package will be created under src)*

*3Creation of Java Class*

*Right click on the package name-> New-> Class->Class name should be in caps -> Finish*

*(Class will be created under src)*

*Whenever create a class always the parent class will be the object class (java.lang.Object)*

*Short cut for everything is Ctrl+Space button*

*Syso ctrl+Space*

*IDE-: It will be complie the program when I write the code (so no need to run manually)*

*Directly we can run the program -> Run As->Java Application*

*Ctrl+shift+F11 -> run the program*

*// - Command line -> Ctrl+/*

*/\* \*/ -> multiline command ->Ctrl+Shift+/ -> remove multi line command Ctrl+Shift+\*

*/\*\* \*/ -> documentary command*

*Project-> right click->location -> click on the icon -> it will directly navigate to file location*

*Eclipse will show only java class, class file will be available in Bin folder*