

JAVA Q&A

Q1. What is Java?

Sol Java is an obj oriented, class based, concurrent, secured and general purpose computer language.

Q2. When was Java developed?

Sol Java was developed in 1995 by Sun Microsystems (comes under Oracle now).

Q3. Who is the father of Java?

Sol James Gosling.

Q4. What are some applications where Java can be used?

Sol Desktop applications that are standalone.

Making web applications.

Making mobile applications.

Making enterprise apps.

Also used in smart card, embedded systems and robotics.

Q5. Some famous frameworks and programs in Java!

1) Spring (& Spring Boot)

6) JavaFX

2) Hibernate

7) Swing

3) JSP

8) AWT

4) Servlet

9) Android (backend)

5) Struts

10) JPF

Q6. What are the four platforms or edition of Java?

1) Java SE (Standard)

3) Java ME (Mobile)

2) Java EE (Enterprise)

4) JavaFX

Q7. How is Java different from C++?

Java

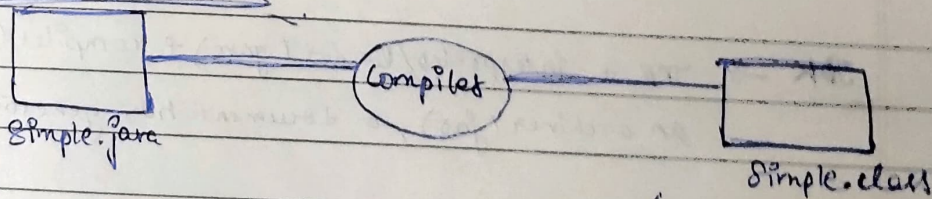
- 1) Purely obj oriented
i.e single root hierarchy.
- 2) Memory is system managed
- 3) Platform independent once
compiled into bytecode.
- 4) No pointers, operator overloading
and different names of file
and class not allowed.
- 5) Built-in support for comments
helps developers provide documentation
within their source file

C++

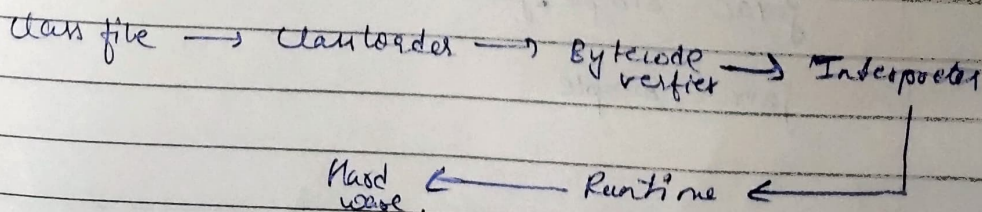
- Procedural and obj oriented
- Memory management is manual.
- Platform dependent.
- Pointers, overloading operators
is allowed. Filename
can be anything.
- No built-in comment
support.

Q8. Why and how is Java 'write once run anywhere'?

At compile time



At runtime



Q9. What is JVM, JRE and JDK?

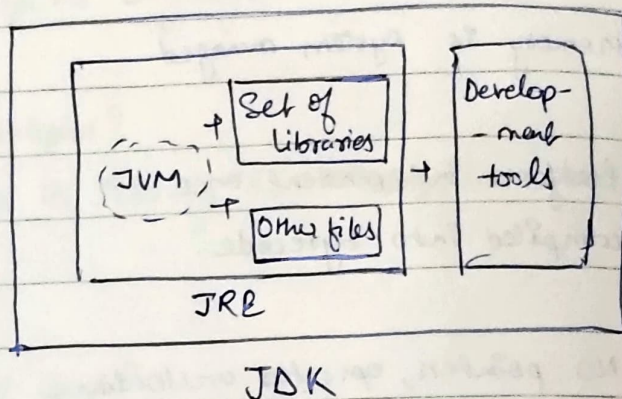
Sol.

JVM → Java Virtual Machine

JRE → Java Runtime Environment

JDK → Java Development Kit.

Diagram →



→ Imp to note that JDK, JVM and JRE are platform dependent

JVM → Virtual runtime environment to run the compiled bytecode

3 notions → specification, implementation & instance
(by company) (JRE) (each line)

JRE → Set of software tools used to develop Java applications.

Implementation of JVM as it physically exists.

JDK → JRE + interpreter/loader (java) + compiler (javac) + an archiver (jar), a documentation generator (javadoc).

Q10. How to compile a program in Java?

javac Simple.java

java Simple