Rajshree
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3) Platform Independent.

Java is a write once, run anywhere language.
A platform is the hardware or Software environment in which a program runs.

4) Secured.

with Java, we can develop virus-free System.
Java is Secured because.

→ explicit pointer.
→ Java programs run inside a virtual machine Sandbox.
→ Classloader.
→ Bytecode Verifier.
→ Security Manager.

5) Robust

→ It uses strong memory management.
→ there is a lack of pointers that avoids Security Problems.

6) High Performance.

→ Java is faster than other traditional interpreted programming lang. because Java bytecode is "Near" to native Code.

7) Portable.

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8) Dynamic :-
Java is dynamic language. It Supports the dynamic loading of Classes. It means classes are loaded on demand.

9) About Java technology And its Component.
- Java is a high-level, general-purpose, O-O and secured programming language developed by james Gosling at Sun microsystem in 1991.

Editions :-
Java Standard Edition :- It is used to create programs for a desktop Computer.

Java Standard Edition :- It is used to create large programs that runs on the Server and manages heavy traffic and Complex transactions.

Java Micro Edition :- It is used to develop application for Small devices Such as Set-top boxes, phone.

Q How JVM Works - JVM Architecture.

→ JVM runs Java application as a runtime engine. JVM is the one that calls the main method present in a Java Code. JVM is a part of JRE (Java runtime engine).

Java applications are called WORA (Write Once Run Anywhere). This means a programmer can develop java code on one system and expect it to run on any other Java-enabled system without any adjustment. This is all possible because of JVM.