WHY JAVA IS:

1-Distributed:

->In Java, we can split a program into many parts and store these parts on different computers.

->A Java programmer sitting on a machine can access another program running on the other machine.

2-High performance:

->Java provides high performance with the use of “JIT – Just In Time compiler”, in which the compiler compiles the code on-demand basis, that is, it compiles only that method which is being called.

3-Architectural Neutral:

->its application to compile on one hardware architecture and to execute on another hardware architecture.

4-Robust:

->There is automatic garbage collection in Java which runs on the Java Virtual Machine to eliminate objects which are not being accepted by a Java application anymore.

5-Portable:

->Java code can execute on all major platforms.

6-Simple:

->Java has removed many complicated and rarely-used features, for example, explicit pointers, operator overloading, etc.

7-Secure:

->the Java language itself is type-safe and provides automatic garbage collection, enhancing the robustness of application code.

->A secure class loading and verification mechanism ensures that only legitimate Java code is executed.

8-Dynamic:

-> Java programs can carry an extensive amount of run-time information that can be used to verify and resolve accesses to objects at run-time.