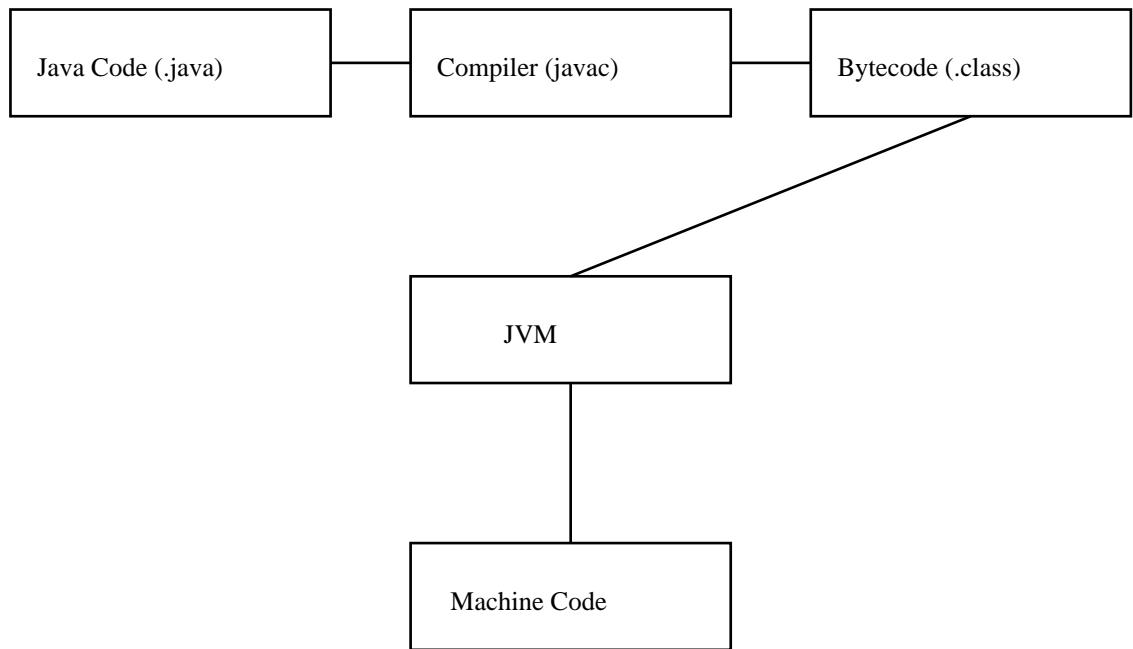


Java Program Execution Flow (JDK → Compiler → JVM)



Flow Explanation:

1. Java source code (.java) is written by the developer.
2. JDK provides the compiler (javac), which compiles .java into bytecode (.class).
3. The bytecode is platform-independent.
4. JVM loads the bytecode using ClassLoader, verifies it, and executes it.
5. JVM uses JIT compiler and interpreter to convert bytecode into native machine code.
6. Machine code runs on the underlying OS/CPU.