

# **Building Blocks**

**The Environment**

# Major components of Java

- to do Java development one needs JDK (*Java Development Kit*)
- Oracle's JDK, OpenJDK, etc. - select version 1.8 or 17
- key commands provided by JDK
  - `javac` : converts .java source files into .class bytecode
  - `java` : executes a program
  - `jar` : java archive (packing files together)
  - `javadoc` : for documentation

# Java Runtime Environment (JRE)

- in Java 8 and earlier, this was a subset of JDK
- JRE allows the user to run Java applications (no compiler)
- after Java 8, one just uses full JDK to run Java applications