

Lesson 1: Introduction To Java

1. Java Programming is a general-purpose *object-oriented programming language* developed by Sun Microsystems in 1991, designed for the development of software for consumer electronic devices such as TVs, VCRs, toasters, etc.
2. Some Java careers include: *Mobile app development, web development, desktop interface application, and game development*.
3. An *interpreter* is a kind of program that executes other programs.
4. *Compiler*- changes the code into a set of instructions specifically designed for a particular type of machine and operating system
5. *Interpreter*- translates the instructions into something the machine can understand
6. The python code you write is compiled into python bytecode, which creates a file with extension .pyc. The .pyc file, created in the compilation step, is then executed by appropriate virtual machines.
7. Java is both a compiled language as well as an interpreted language.
8. The Java Virtual Machine is a program whose purpose is to execute other programs. The JVM has two primary functions: to allow Java programs to run on any device or operating system (known as the *"Write once, run anywhere"* principle), and to manage and optimize program memory.
9. *JDK (Java Development Kit)*- allows developers to create Java programs that can be executed by the JRE (Java Runtime Environment).
10. *IDE (Integrated Development Environment)*- software used by a developer to easily code in a certain programming language