Software Development Class 1

11-02-2021

Why here?

You need software projects

Learn how the entire architectures work not just one problem at hand

Goal - Software Developer

Why Java vs Python vs C++?

Best path for learning OOPs

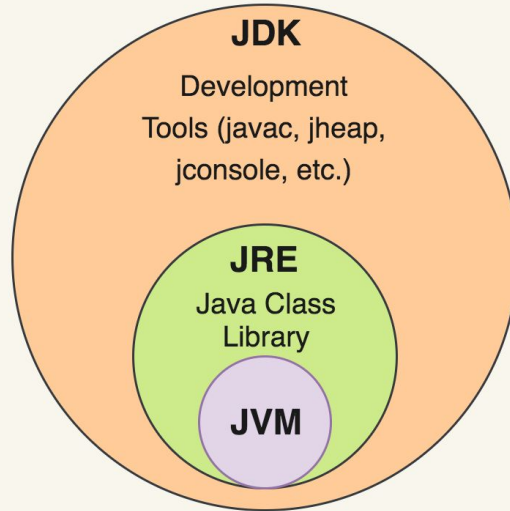Just the right amount of easy/difficult

You need concepts not languages when building

Differences in compiler, interpreter, editor and ide

- IDE/Editor (VSCode/Jetbrains/BlueJ/ Notepad/ sublime)
- Source Code (High Level Language) (C, C++, Java,kotlin, fortran)
- Low Level Language / assembly language (ASM, 8085 instructions)
- Machine Language (binary language 0 and 1)
- Advantages of having low level language
- Compiler (Java, C)
- Assembler
- Interpreter (Python)

Getting your system ready

- javac (for compilation)
- java (for invoking jvm)

Running Hello world

```
home > shashwat > ● hello.java > hello
1   public class hello{
        Run | Debug
2       public static void main(String[] args){
3           System.out.println("Hello World");
4       }
5   }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**

```
shashwat@shashwatIdeapad-310-15IKB:~$ javac hello.java
shashwat@shashwatIdeapad-310-15IKB:~$ java hello
Hello World
shashwat@shashwatIdeapad-310-15IKB:~$ 
```

Done for today