Java Course

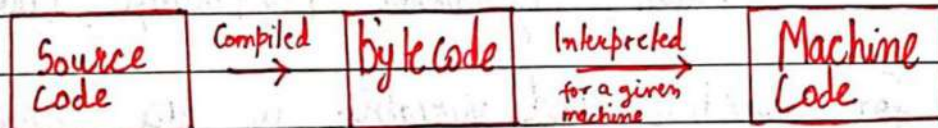Java is an Object Oriented programming language developed by Sum Microsystems of USA in 1991

It was originally called Oak by James Goslin
↳ one of the inventors of Java!

JAVA = Purely object Oriented

How JAVA Works?
Java is Compiled into the bytecode and then it is interpreted to machine code

| Source Code | Compiled → | byte code | Interpreted for a given machine → | Machine Code |

JAVA Installation
Go to Google & type "Install JDK"   ⟹ Installs JAVA JDK
Go to Google & type "Install IntelliJ Idea" ⟹ Installs JAVA IDE

JDK → JAVA Development Kit = Collection of tools used for developing and running Java programs

JRE → JAVA Runtime Environment = Helps in executing programs developed in JAVA

Basic Structure of a Java Program

```
package com.company;        → Groups classes!
                                    Entrypoint into the application
public class Main {
    public static void main (String[] args) {
        System.out.println ("Hello World");
    }
}
```

Naming Conventions

→ For classes, we use PascalConvention. First and Subsequent characters from a word are Capital letters (uppercase)
Example:
Main, MyScanner, MyEmployee, CodeWithHarry

→ For functions and variables, we use CamelCase Convention. Here first character is lowercase and the subsequent characters are uppercase like below:
main, myScanner, myMarks, CodeWithHarry