JAVA

* Why Java?

1. Platform independent or architecture independent(WORA)

Platform -> Combination of Operating System + underlined hardware

* C & C++

C compiler produces an executable file which run on only specific platform.

Example: Compile C code on windows it can run on windows only.

* Extension of source file for java -> .java
* Extension of compiler output -> .class

(intermediate byte code)

WORA -> Write Once and Run Anywhere

Run on any database

Run on any web server

1. Simple & Robust (Strong, fail proof)
2. Secure
3. Automatic Garbage Collection

In C++ if we are creating an object but no longer need it, we need to clean it from the memory(By destructor, delete)

Java -> Garbage Collector

1. Inherent Multi-Threaded support
2. Object Oriented Support

* Why java is not completely object oriented?

Ans: for the purpose of efficiency, java supports primitive data types.

Primitive types are not object types

Also download IntelliJ IDE

* Structure of java program

1. Main Method:

Entry point of a java program.

public static void main(String[] args)

{//code to be executed }

public: Access modifier that makes the method accessible from anywhere.

static: Allows the method to be called without creating the object

void: Indicates that the method does not return any value

String[] args: Parameter to receive command-line arguments