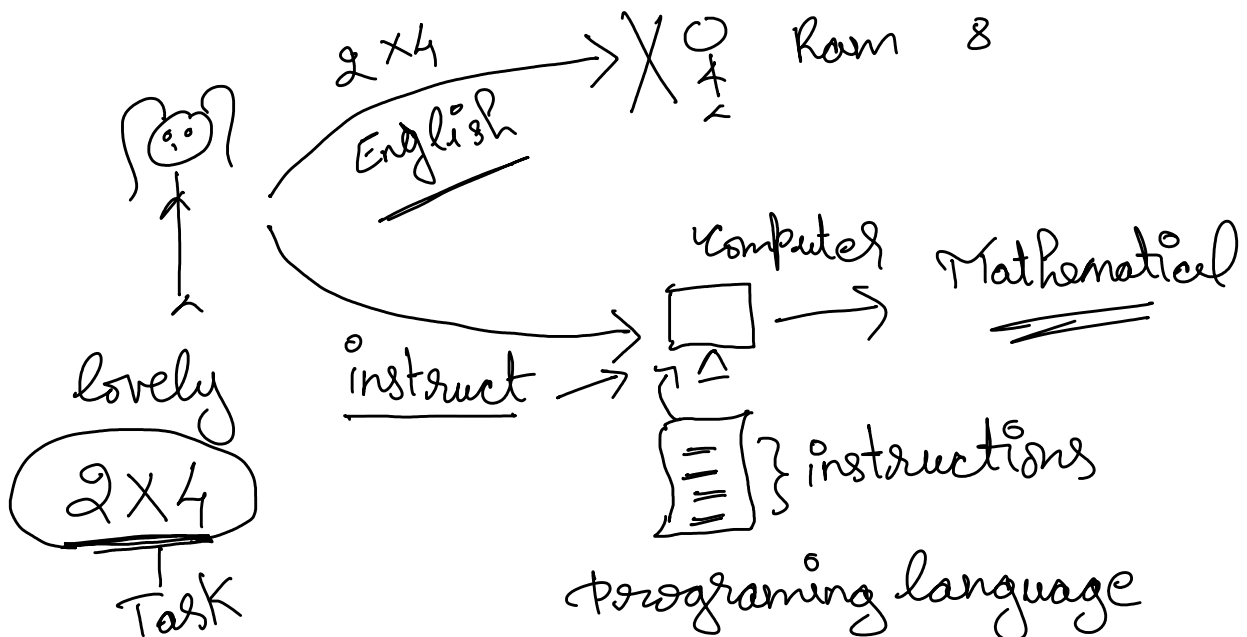
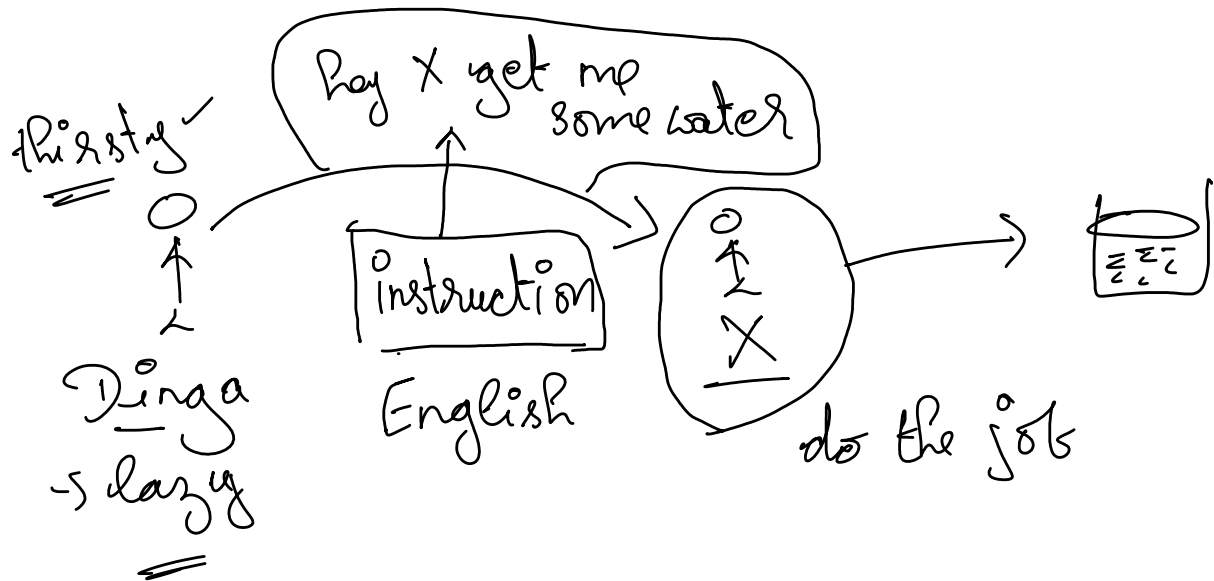
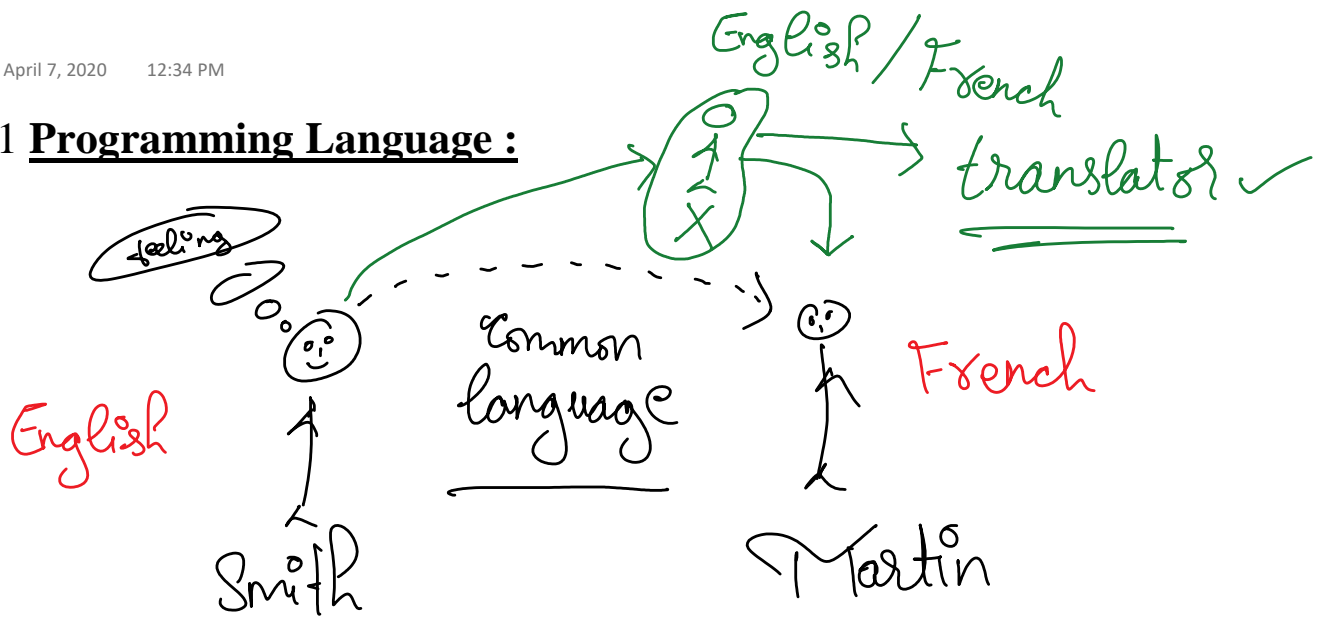


1.1 Programming Language :

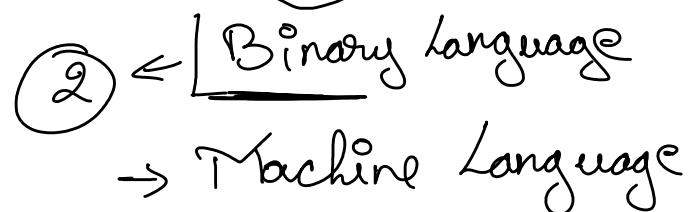
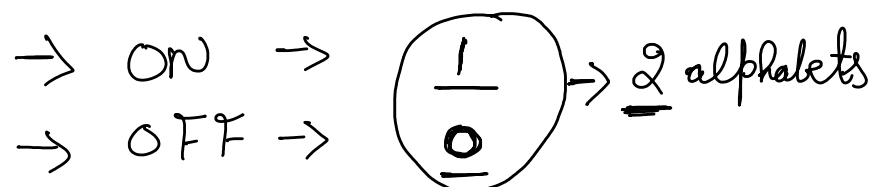
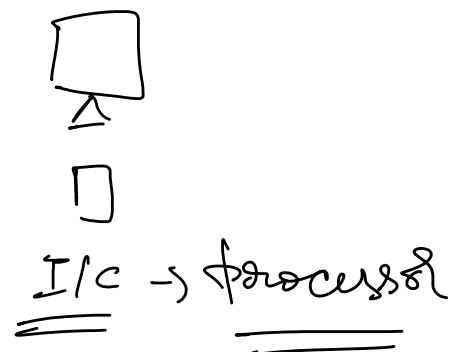
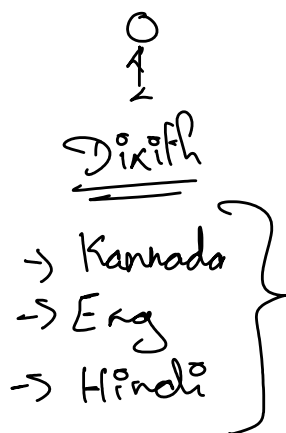


Def :

The language which is used to instruct a computer to perform a specific task is known as programming language

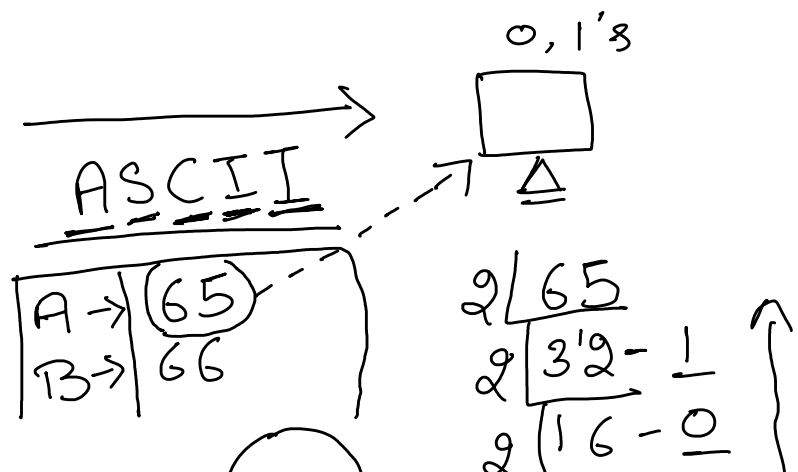
We can further classify Programming languages into :

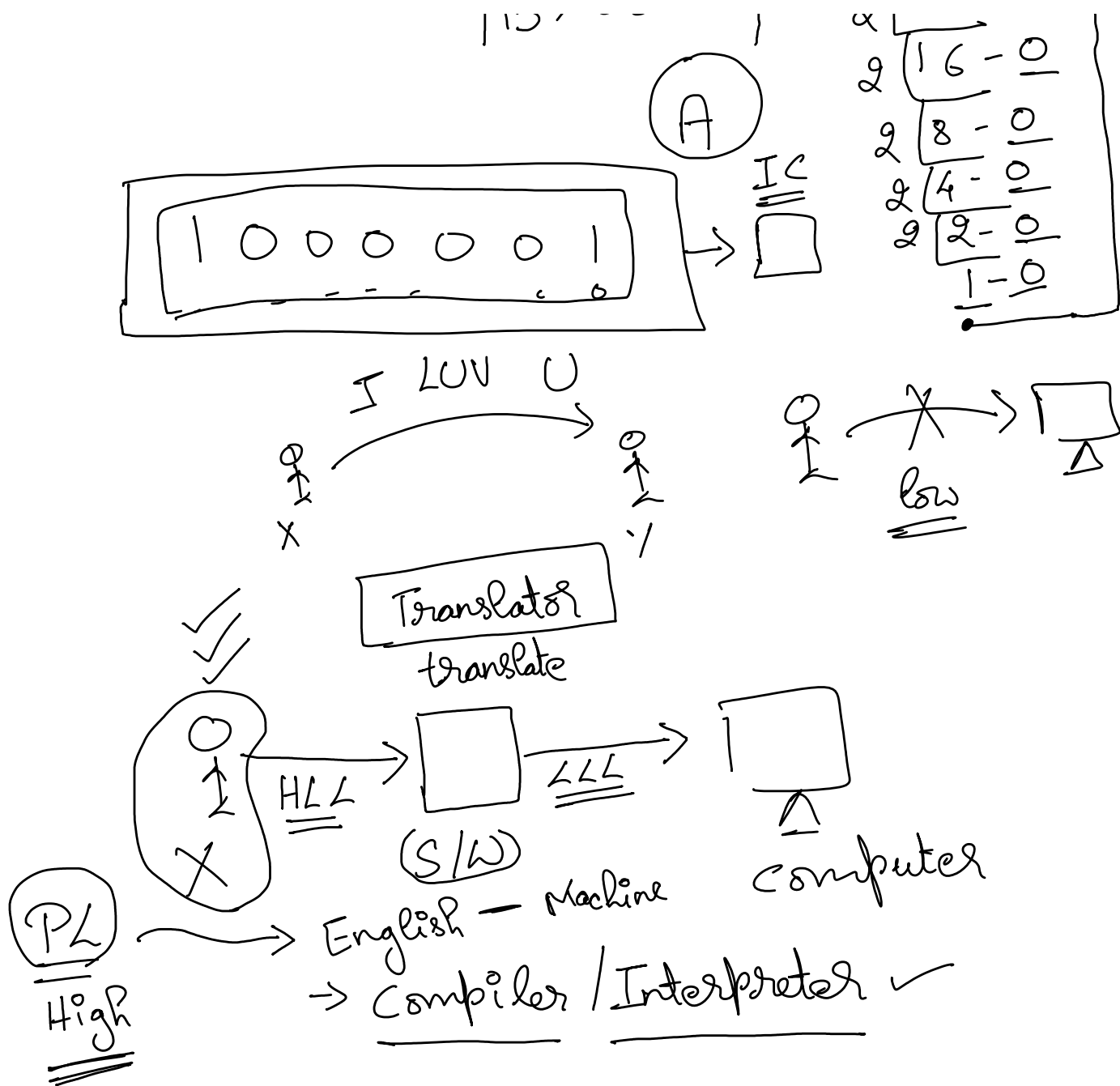
1. Low Level
2. Mid Level
3. High Level



10

Ⓐ





Low Level Language :

A language which is understandable by a machine is known as Low Level or Machine Level Language.

Ex: **Binary Language**

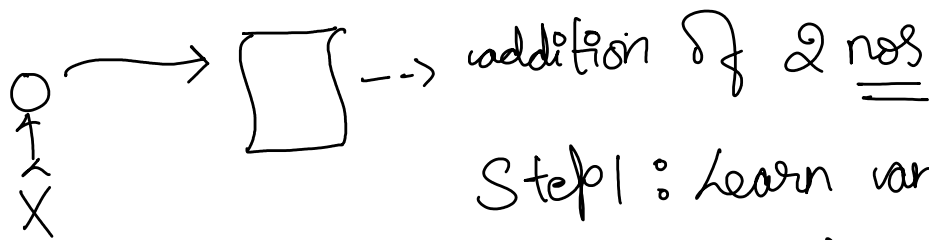
High Level Language :

A language which easily understandable, readable, instruct-able by a programmer is known as High Level Programming language.

Ex: Java, C#, python, PHP ,.....

Compilers/Interpreters :

It is a System Software, they are used to translate a high level language into machine understandable language.

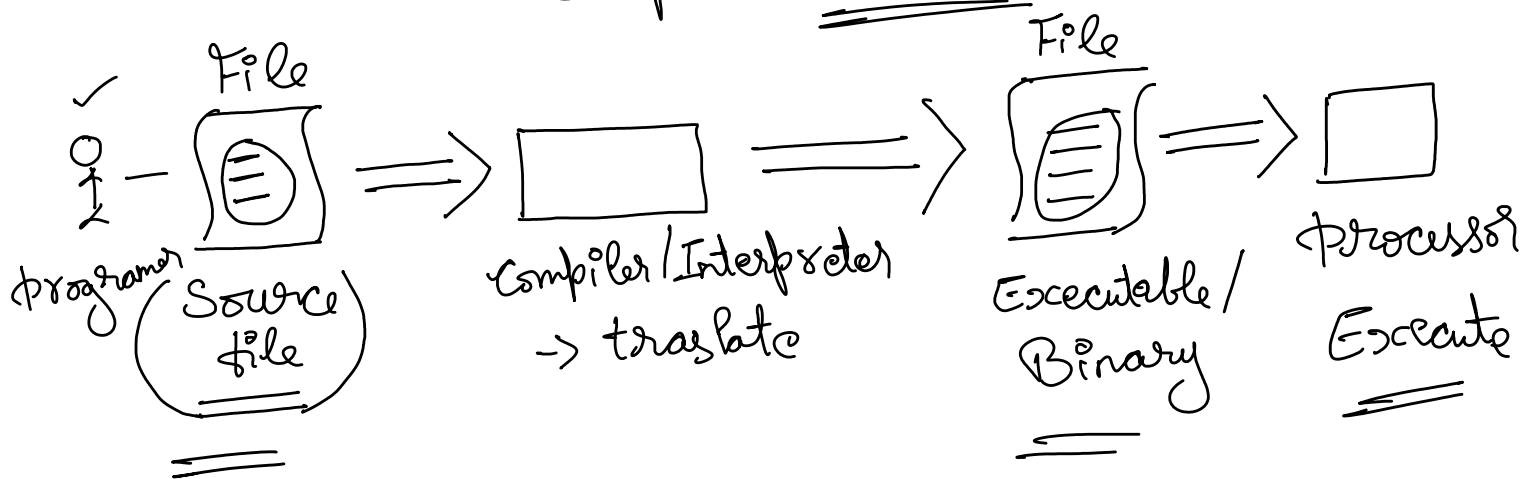


Step 1: Learn any HLL

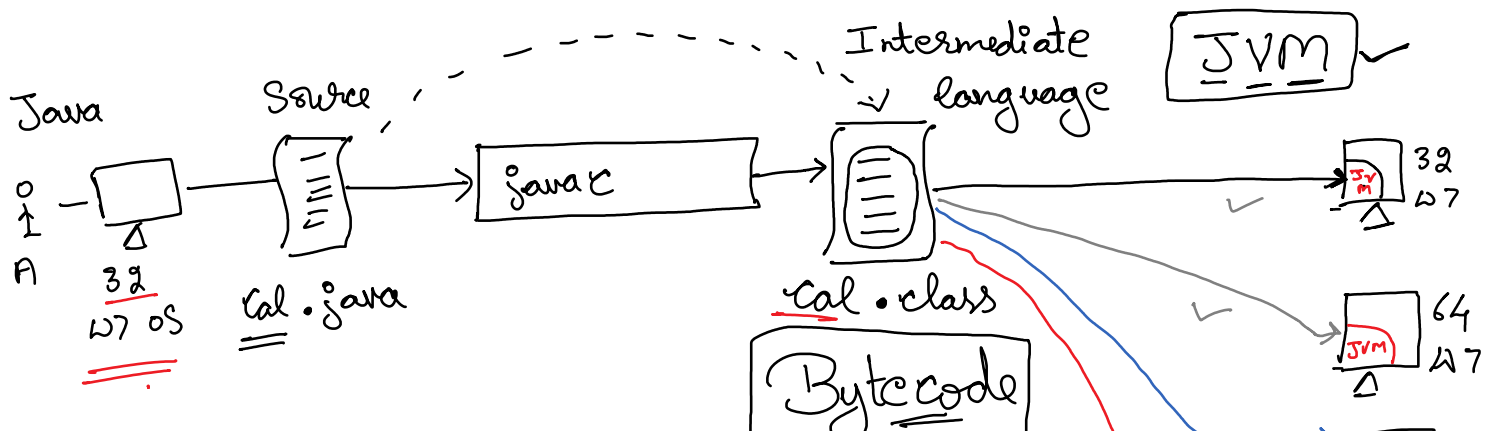
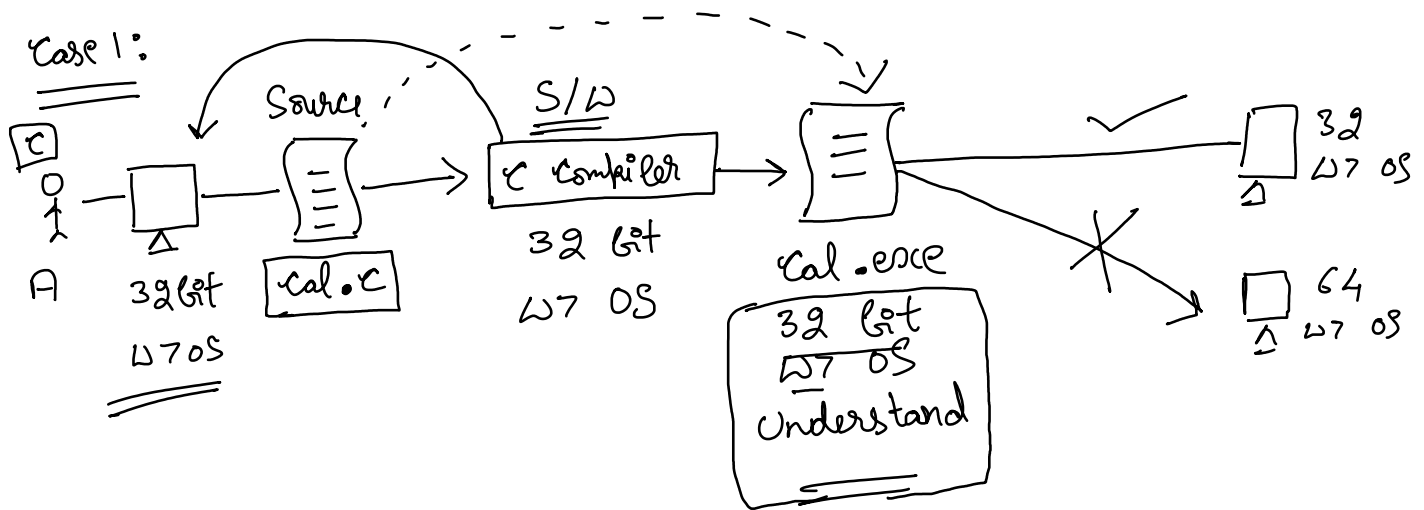
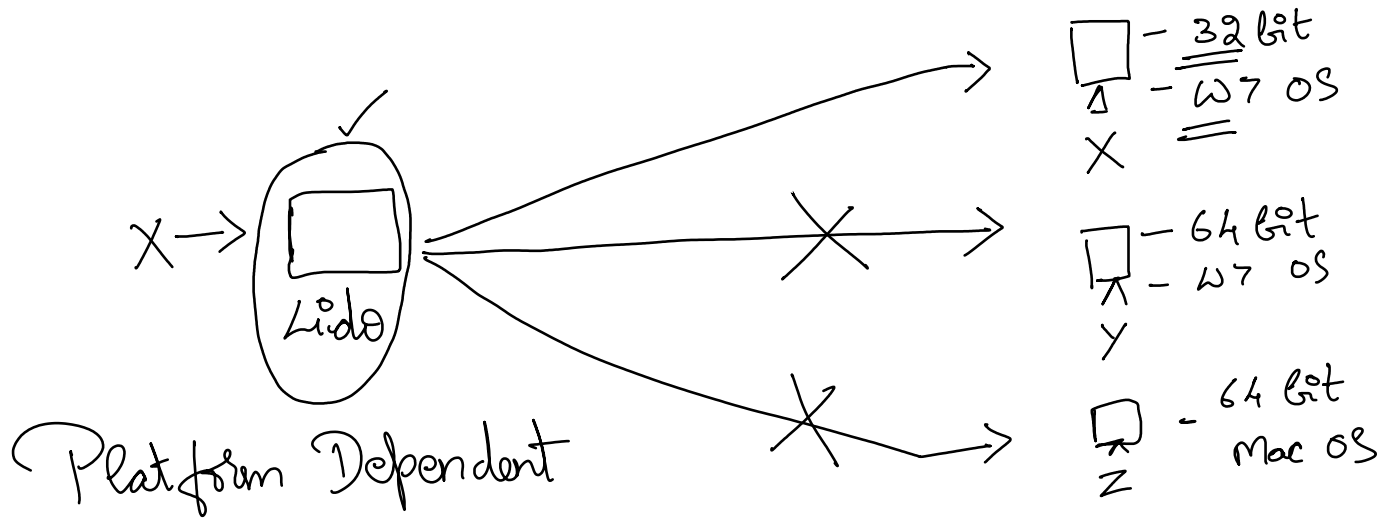
Step 2: Write a program

Step 3: compile (HLL \rightarrow LLL)

Step 4: Execute

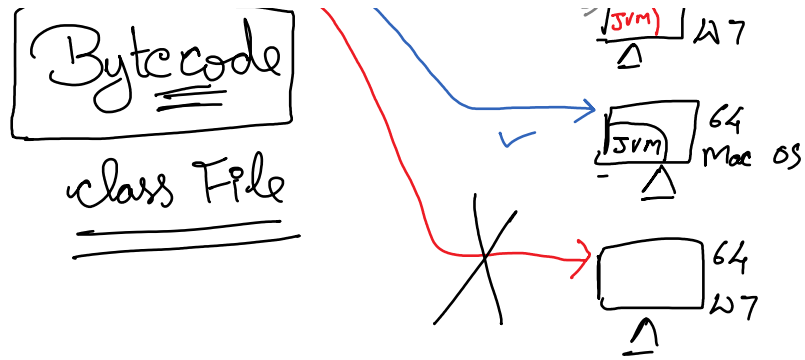


Platform Independent :



.. =

any Platform which
has JVM



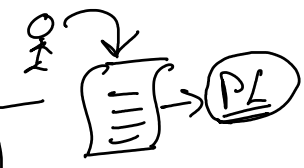
Key Points :

1. Java is 2-step compilation.
2. Java is Platform Independent but it is JVM Dependent
(Write once Compile Once & Execute anywhere any number of Times)
3. Java compiler converts java instructions into Intermediate language known as **bytecode**
4. The java source file must be saved with the extension **.java**
5. The file generated by the javac is known as **class file** and will have an extension **.class**

Advantages of Java :

1. Simple
2. Platform Independent
3. Java supports OOP
4. rich Built-in tools
5. robust

Steps to create & Execute a Java Prgm

1. > create Source File 

2. > Compile The Source File

3. > Execute the Java Prgm.

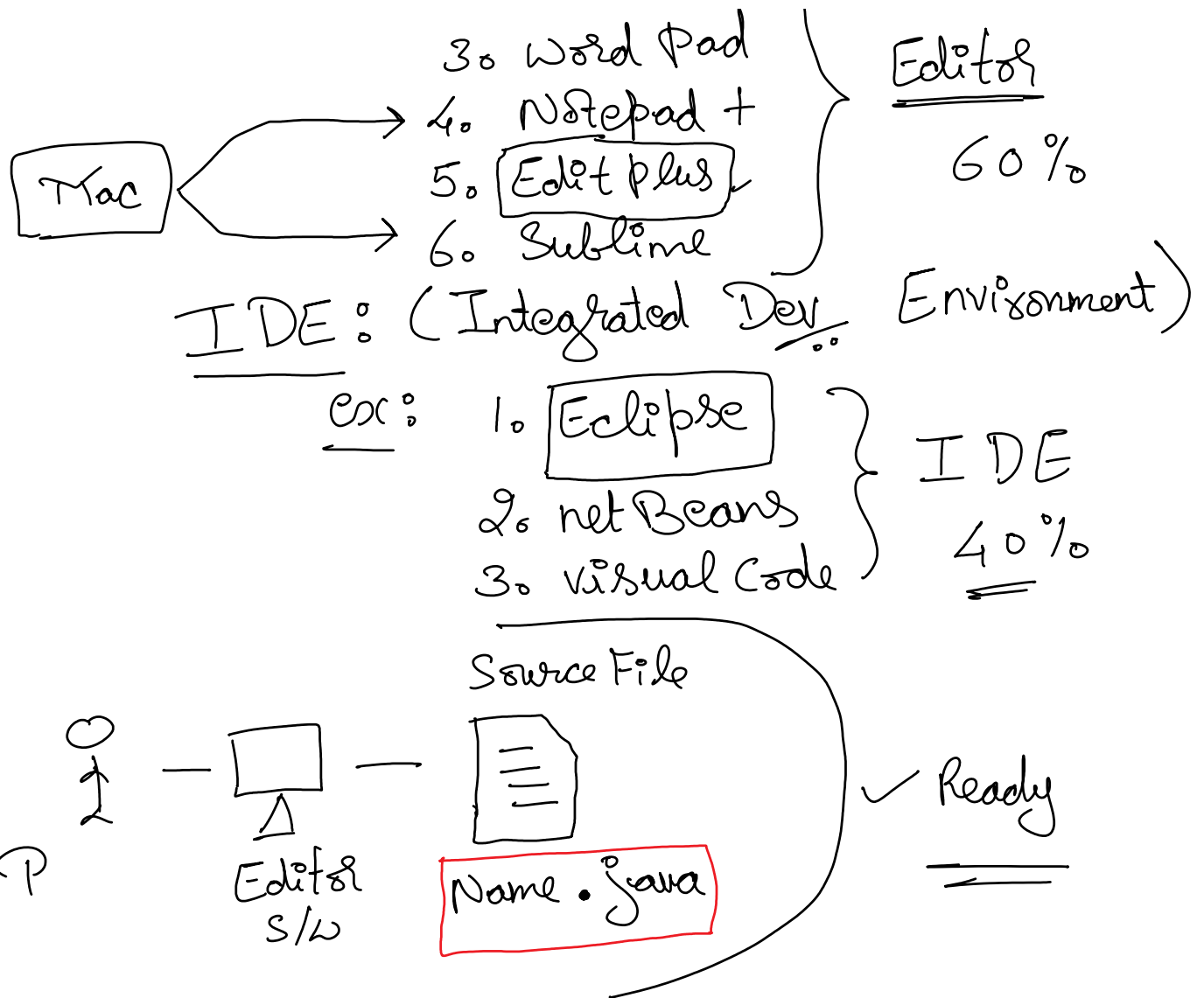
Step 1: Create a Source File :

→ We create a source file with the help of

Editors → Application S/W

Ex : 1. notepad
 2. MS Word
 3. Word Pad

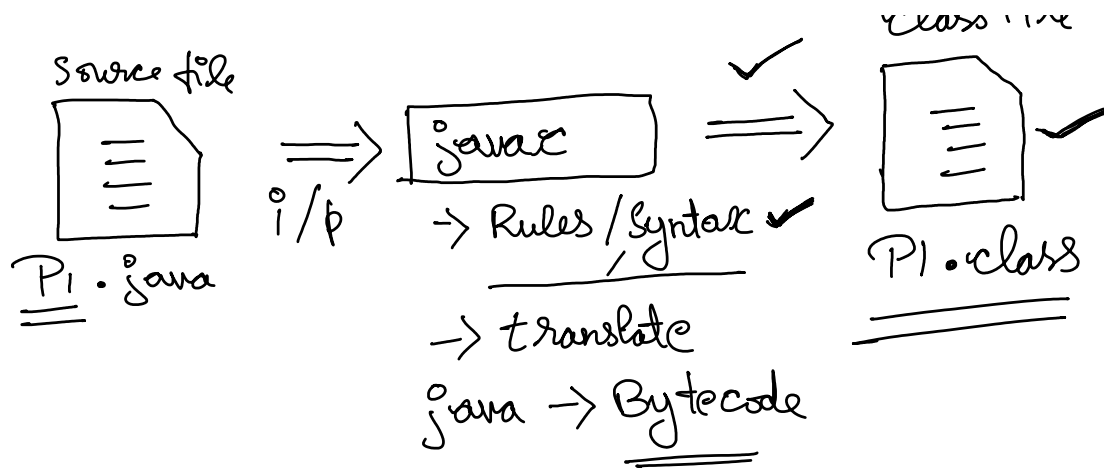
} Editor



Note : The java source will must have .java as extension

Step 2: Compile the Source file:

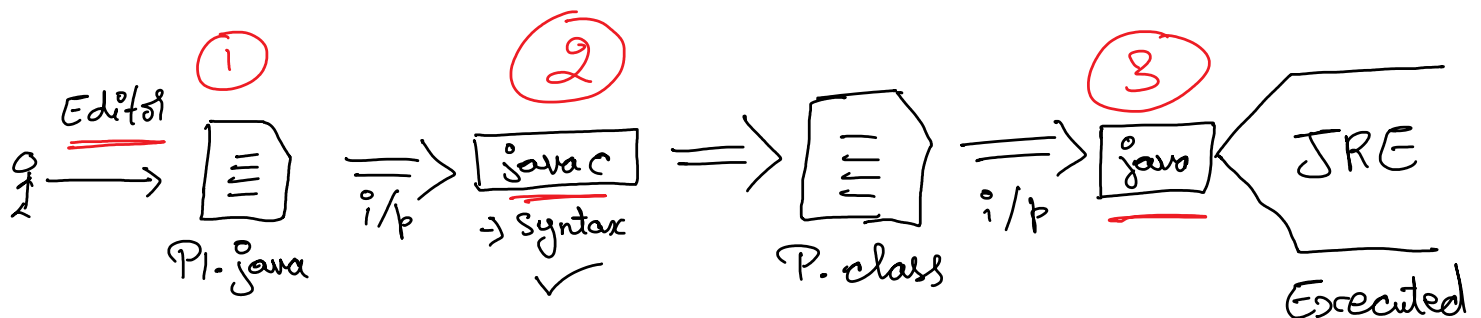
- 1. > javac → We need a java compiler ✓
 - 2. > .java → Source file ✓
- Source file
- class File
-



Step 3: Execution:

1. > Java

2. > Class File



Structure of a Basic Java Program :

```

class class_name
{ // open
  ... -> class block
  public static void main(String [ ] args )
  { // open
    // stmts
    ... -> main method block
  } // close
} // close

```

stmt to print data :

`System.out.println (data) ;`

Softwares To be downloaded :

1. > download & Install editplus

2. > download JDK -13

Java Development Kit

JDK-1,
JDK-2
;

JDK-8 ✓

↓ SDK-2
⋮
latest ver: SDK-14

} | SDK-15