

P1
↓

Punjabi Paragraphs
20 lines

Line 1 in Pun.
Line 2 "

Intermediator
Translator

↓
Translate 20 lines

↓
Compiler

Interpreter

P2
↓

English
20 lines

Line 1 English
" 2 "

JAVA platform Independent:-

Workflow/ Execution of program:-

Test.java

Class A {

public static void main
(String[] args) {

}

}

javac Test.java

java A

Source Code

Compiler

compiles the code

javac

compiler name

Byte Code

→ A: Class

(encrypted) (LLL)

Interpreter (JVM)

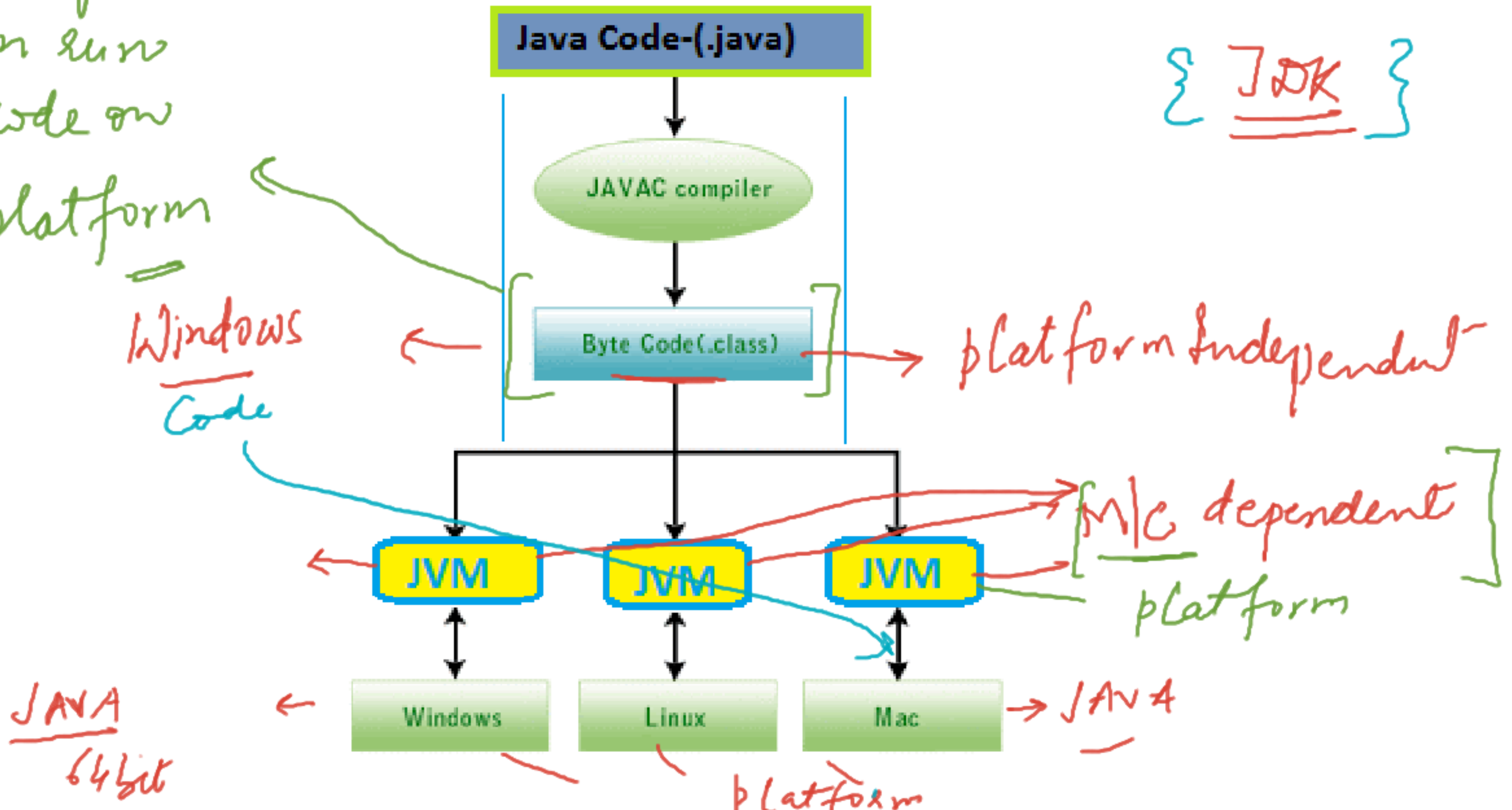
java

→ O/P

Beacoz of Byte code,
We can run
Byte code on
any platform

Why Java language is platform-independent?

{ JDK }



JDK - JAVA Development Kit

JVM - JAVA Virtual M/C

JRE - JAVA Run Time Environment

JIT - Just In Time Compiler

A a;

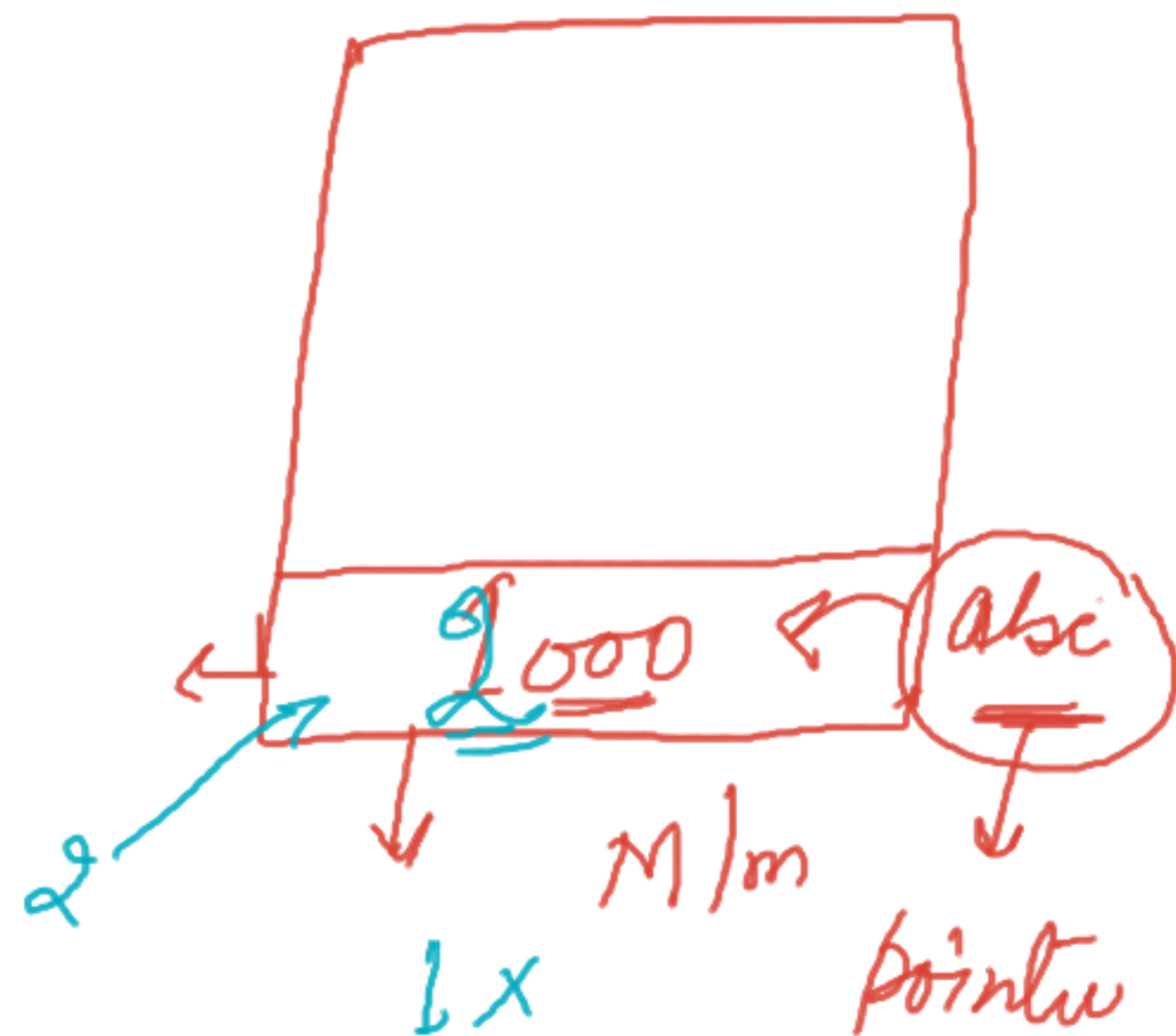
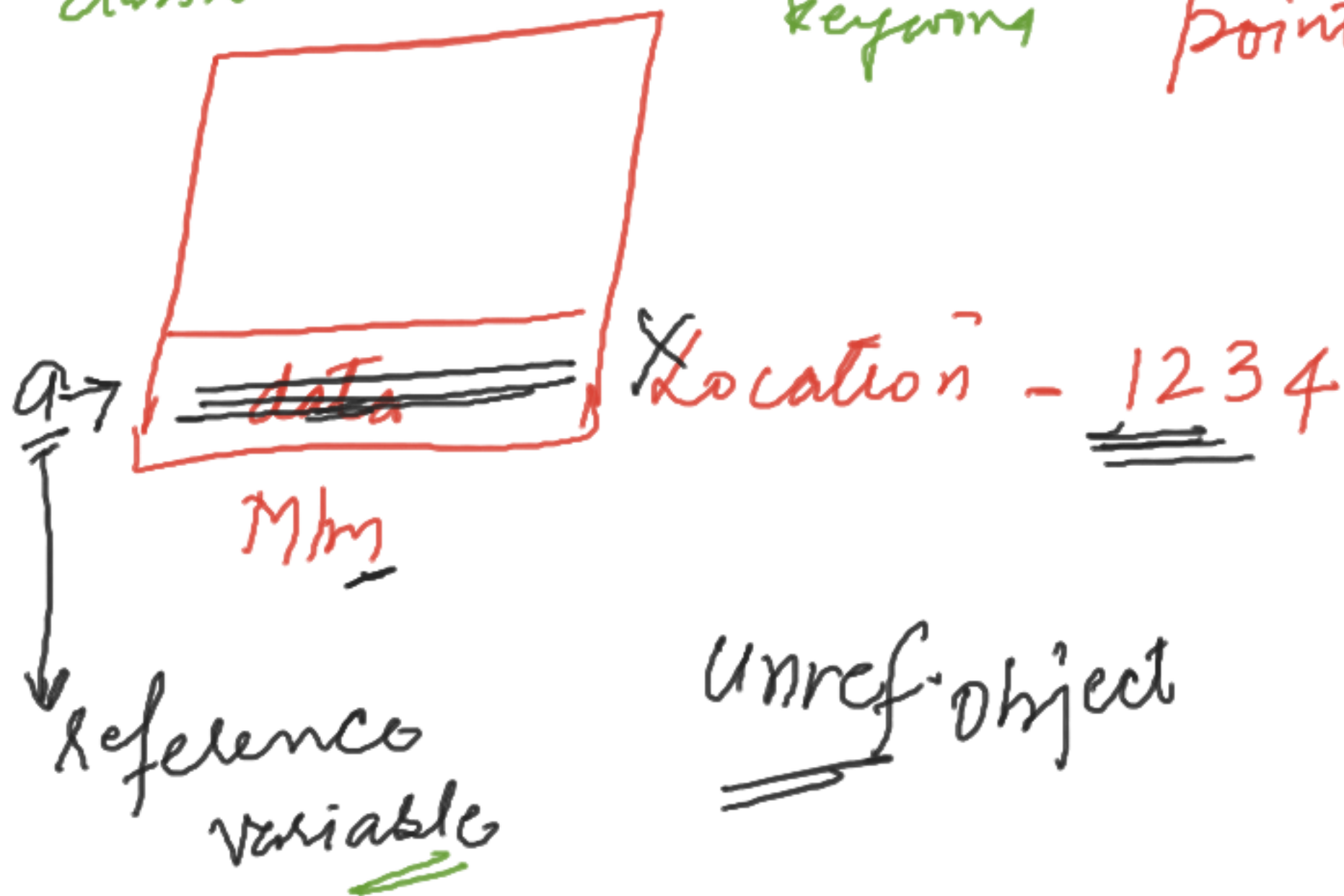
Unref. object

x [A a = new A();] → object of class

class Name variable class Name C

↓ object | a = null;

key word pointer



Array bound checking: Array: → used to store multiple value of similar Datatype.

$a = 10;$
↓
variable only single value

$a = 10, 20, 30;$ X

$a[] = \{10, 20, 30, 40\};$
index 1 1 1 1
no. - 0 1 2 3

$a[4]$
↓
index no } Error

Illegal Data Conversion:

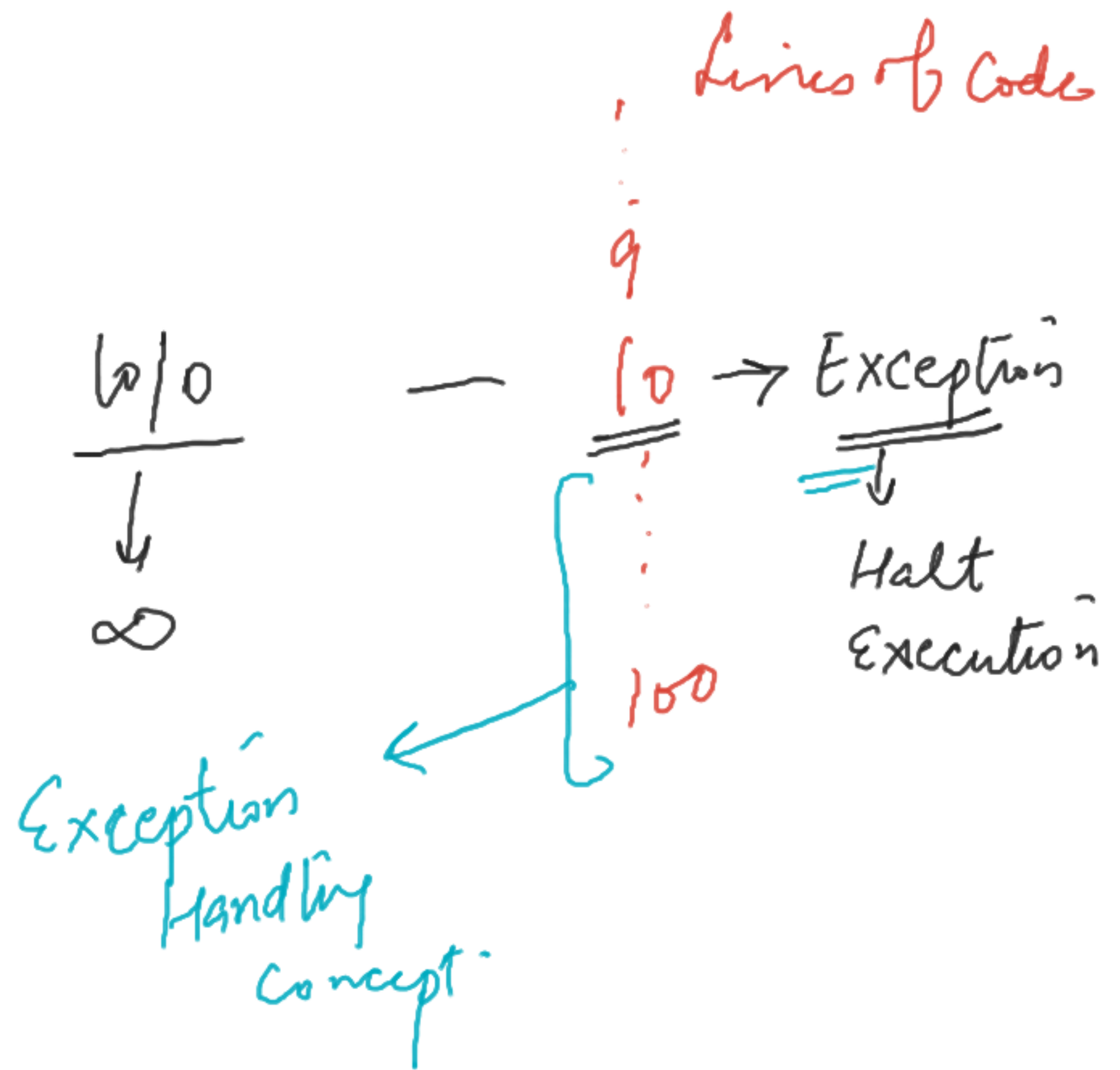
10.45;



int a = 10 ;

10.45

Exception Handling: -



Thread - Small program / method

