Interface — 40min

Exception — 60min

Collections. — 60min.

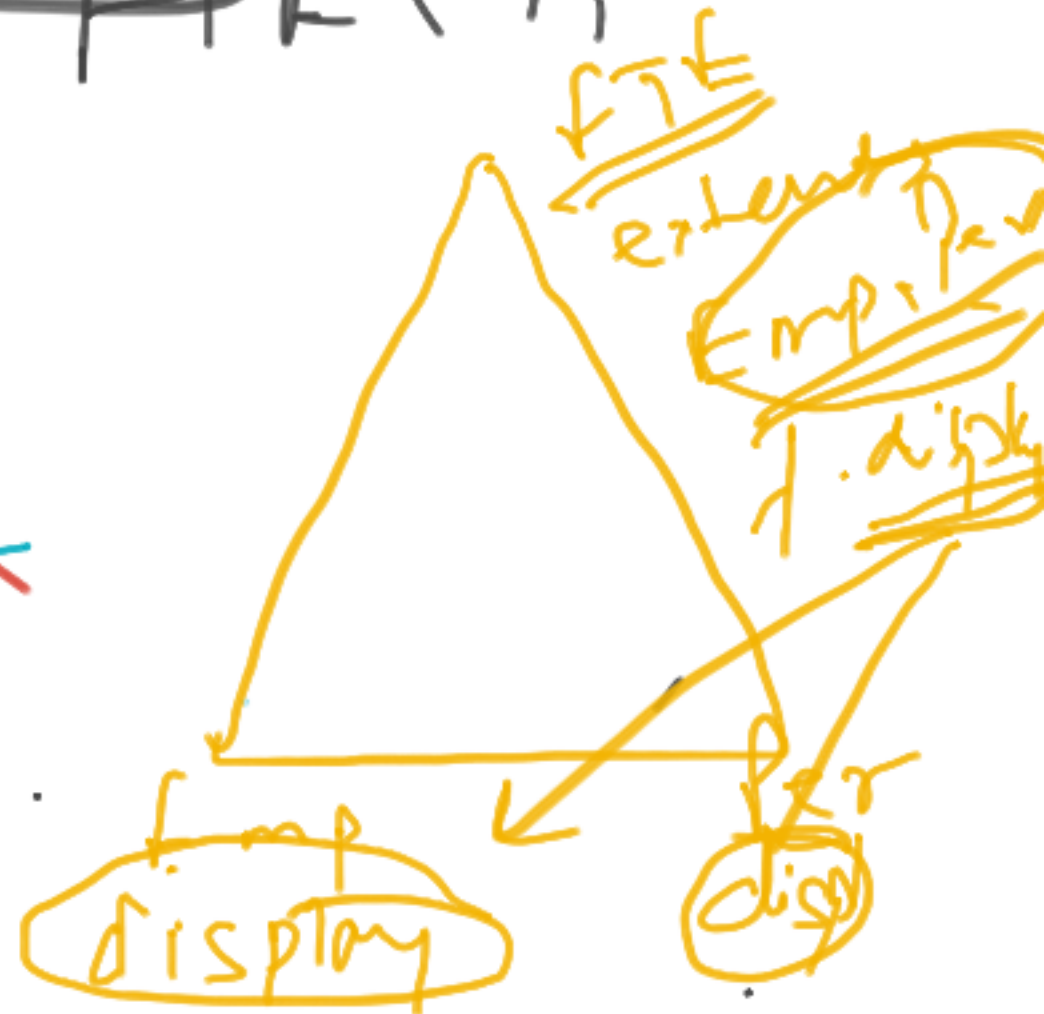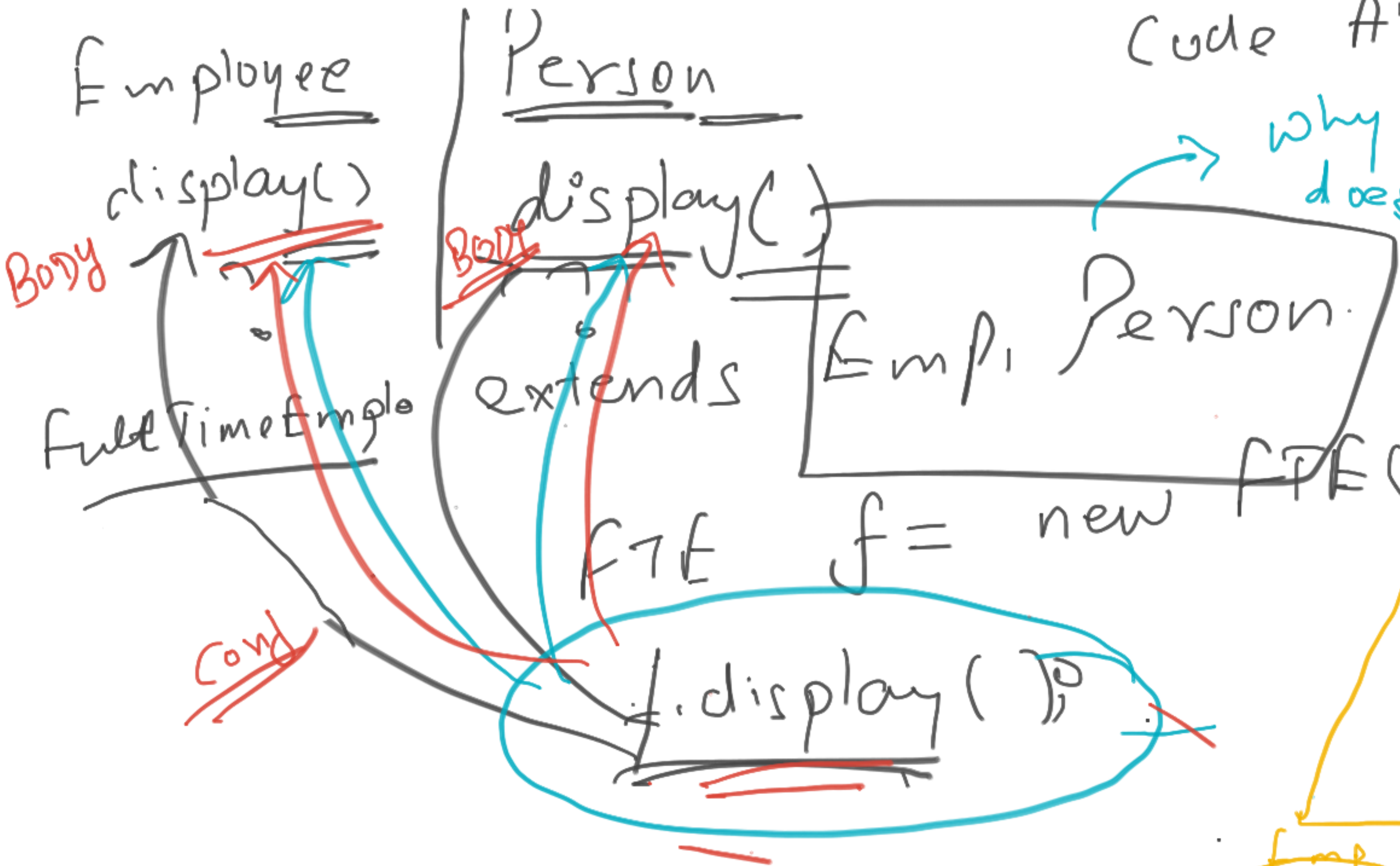---

Interface

(i) Java doesnot multiple inheritance?

Ambiguity — ?

Employee

Person

Code Ambiguity

display()

why java
does not
support
M.I?

BODY

Body display()

extends

Emp, Person

FullTimeEmplo

FTE   f =   new FTE();

cond

f.display();

f.display();

Do we need multiple
  inheritance ?

Interface
  ↳ function are
    abstract

Employee   Person,
                ⌐___
                ⌐___

_____

(Circle)   Shape —
                ═══════
                Geolocation
_____

Abstract Function ??
declaration ◁ no body .
        is called as ABSTRACT

interface
→
 a group of f^n s
 ↳ which are
  ABSTRACT.

Sq-area()
Circled

Square ×
Circle ×
Rectangle ×××

area
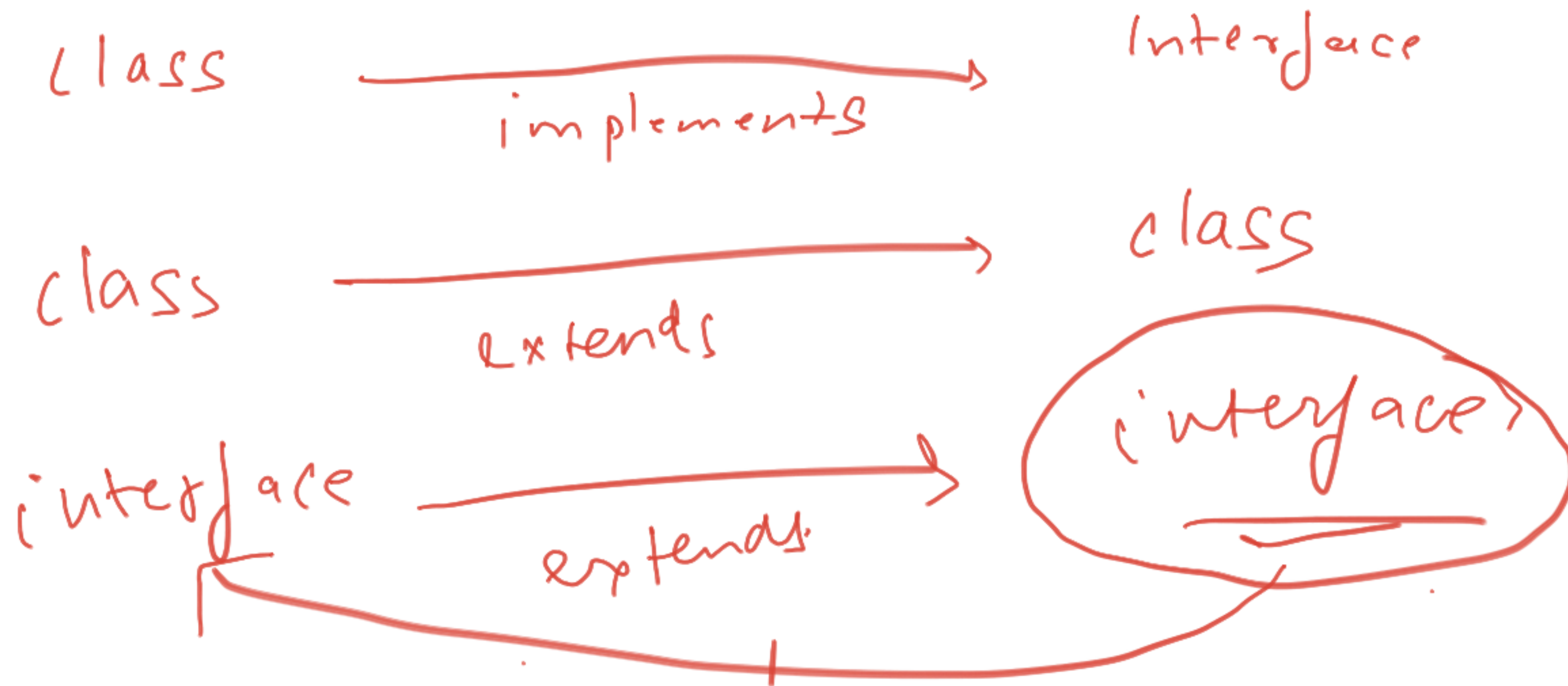
---

interface Areal

area();

}

public c Square
implements
Areal

area(){
 return S*Si
}

class $\xrightarrow{\text{implements}}$ Interface

class $\xrightarrow{\text{extends}}$ class

interface $\xrightarrow{\text{extends}}$ interface

Exception _____ Errors, types &

Codes or instruction {

Things comp
go wrong.

}

1. int $\longrightarrow$ double
2. Load a class but class is not present

3. Open a file but file doesnot $\longrightarrow$

Any problem
in our code

↓

Our code ends the
execution.

→ ends.

↓
Continue

↓
it gives to
the end user

Exception Handling!

To handle
errors / exceptions in our code.

Different types of exception?

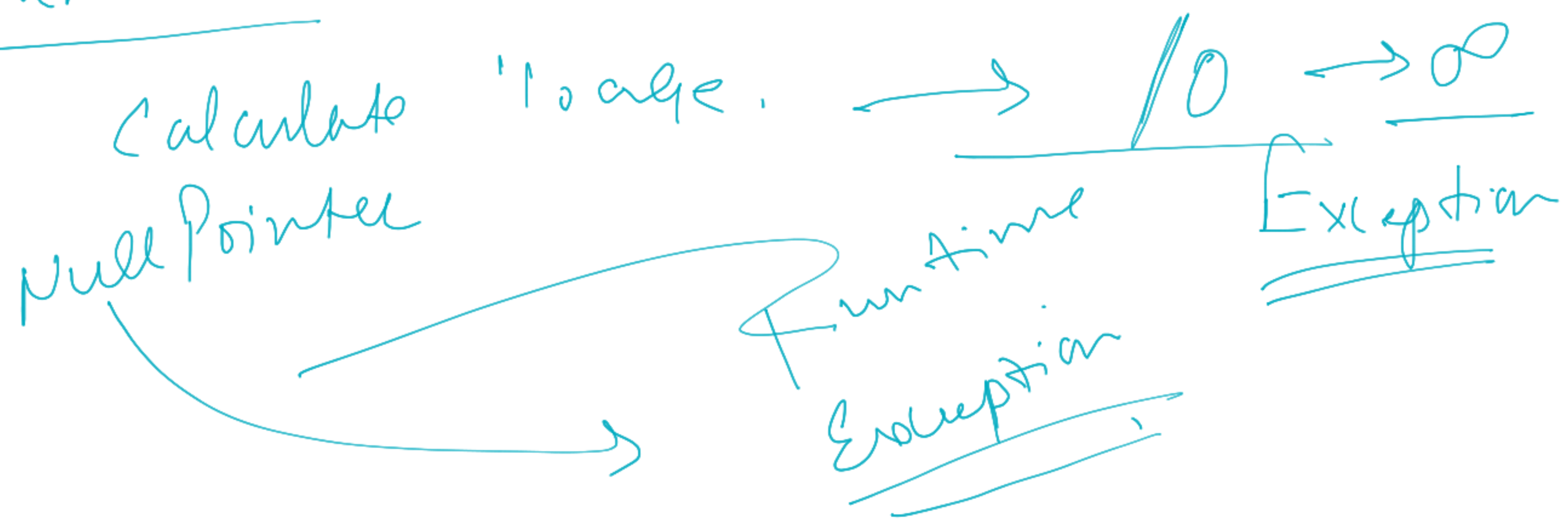(a) Compile Time $\longrightarrow$ Error Check Exception

compile Time

SQL , NullPointer / fileNot Exception.

Runtime

Calculate 'loage. $\longrightarrow$ $/0 \longrightarrow \infty$

nullPointer $\longrightarrow$ Runtime Exception

Runtime Exception

1

Object

Throwable

Exception

→ Checked

→ Unchecked

Error

Cannot be handled.

VM
Out of Mem

Exception

Checked Exception $\longrightarrow$ ClassNotfound

Interrupted

I/O

SQL . . . .

Unchecked $\longrightarrow$ Arthimetic

Index Out of Bound

Null Pointer

Stream

↳ continous flow through a pipeline.
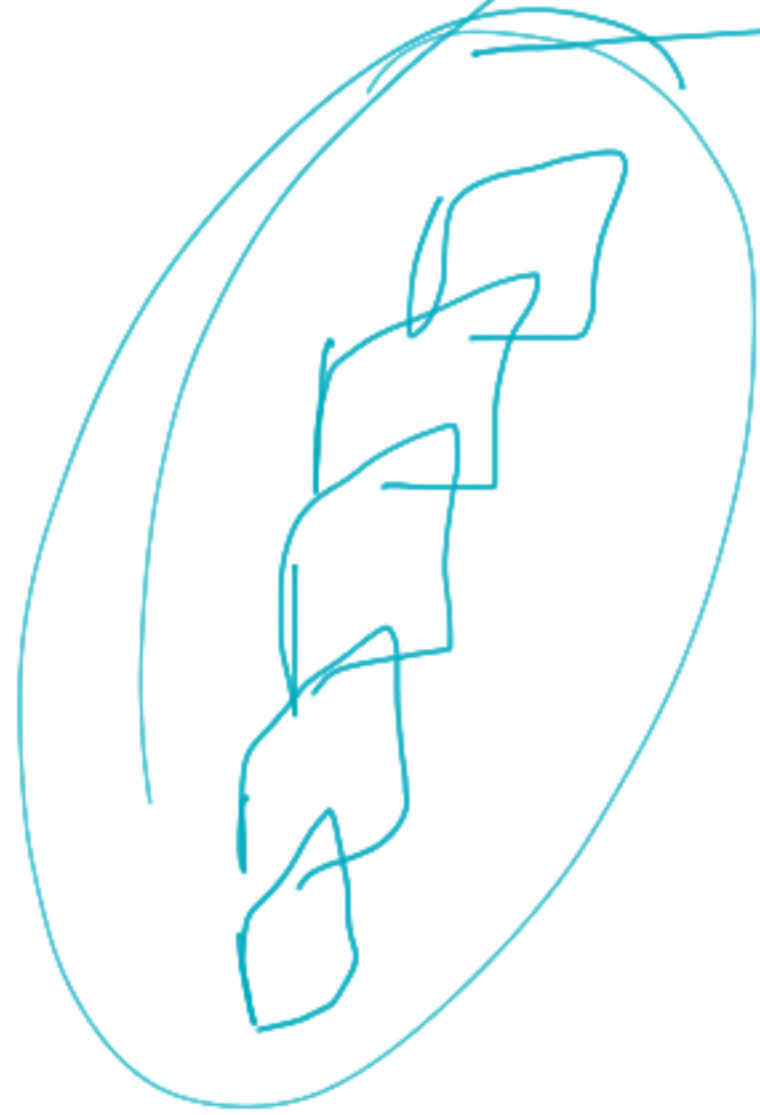
30 fps ——————→ ⬜

uncompress
↓
show

3 thing

underlying data

① data. ⟶ Array collection

{30,20,25} ⟶ ② Intermediate Ops ⟵ map filter sort }

③ Terminal Ops ⟵ collect foreach reduce