

✓ completed

fine

2

3

4

70

15

Error

→ Stop

Interpreter) → fix

Syntax
→ error

Handwritten diagram of a rectangle with dimensions 3, 5, and 100. Arrows point from each dimension to a corresponding label on the right: '3' points to '3', '5' points to '5', and '100' points to '100'.

5

W

function & Method ::

→ ↓

independent

↳ Not require classes & object

```
{ function f1() {  
    }  
}
```

→

ops class A {

public void m1() {

}

→ class & object

}

→ Structured → C
↓
function → data security

add () {

}

sub () {

}

4 pillars

→ Encapsulation

→ Inheritance

→ Abstraction

→ polymorphism

C++

→ oop's → classes
↓
object

Class

House Blueprint

Object

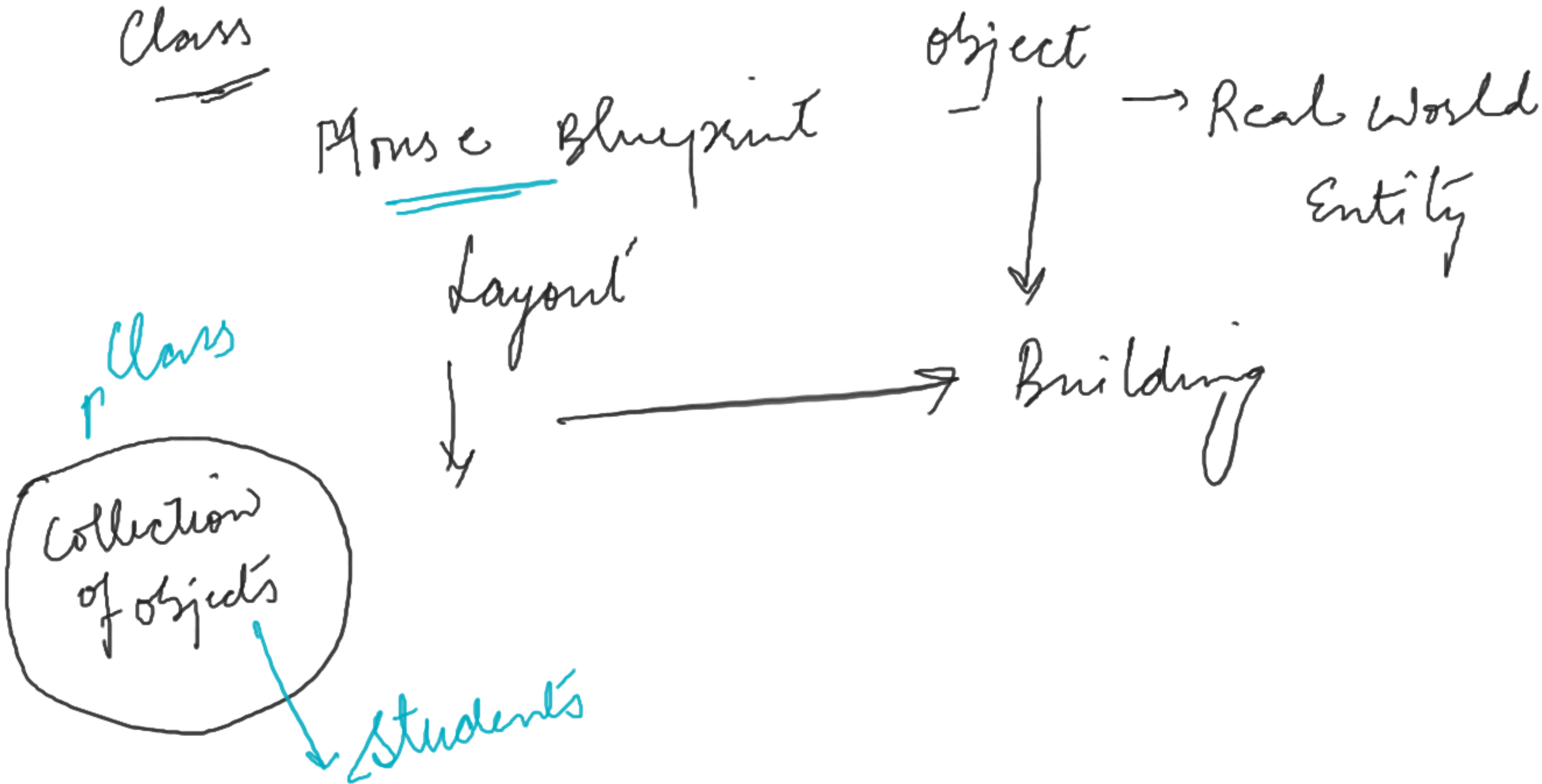
→ Real World Entity

Layout

Building

Collection of objects

Students



Class Student {

String name;

int a

Variables

properties

BG
name
age
id

behavior

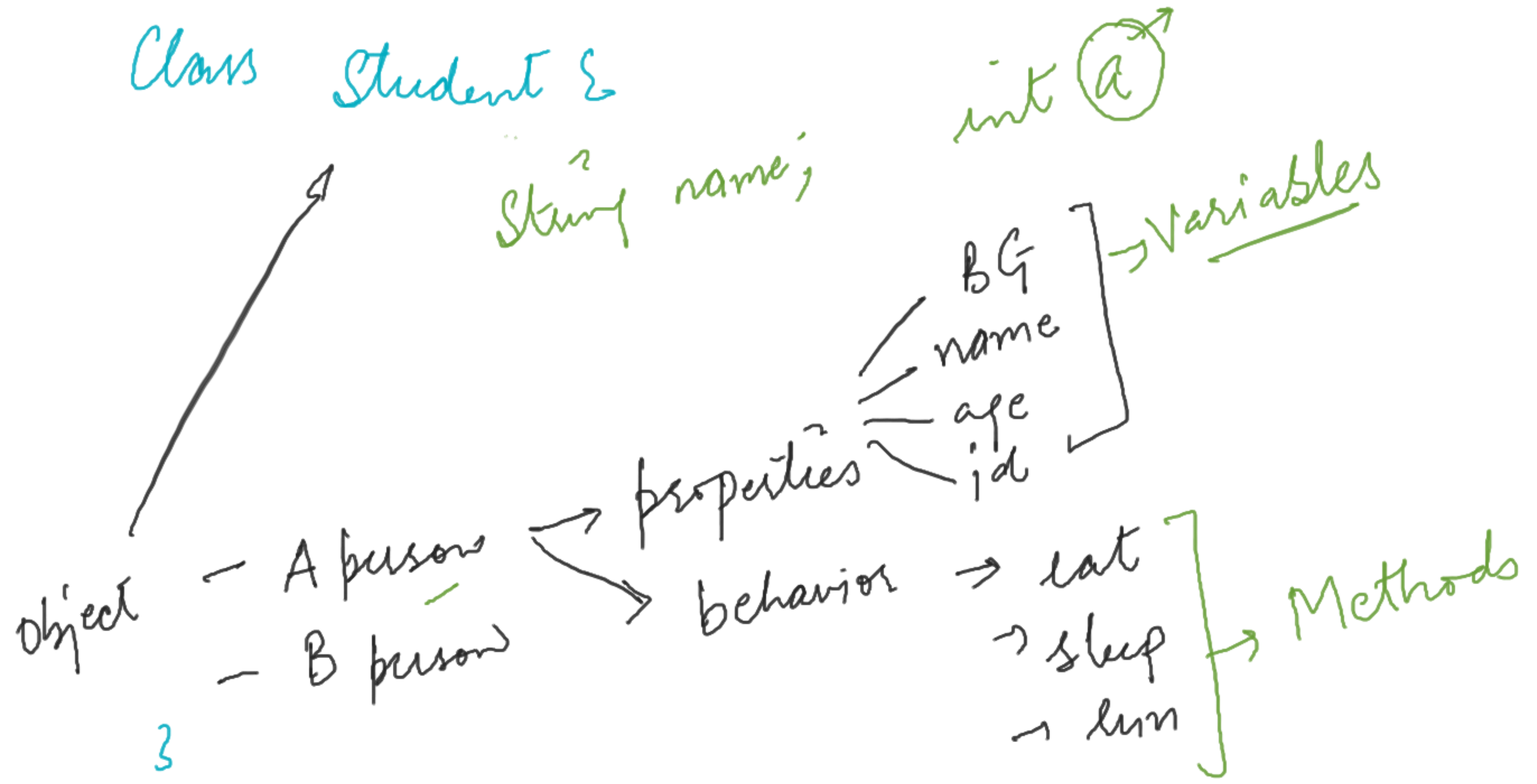
eat
sleep
run

Methods

- A person
- B person

Object

}



① Encapsulation :-

Class → object

prop
behavior
↓
(methods)

private Keywords → variables

public

getter

setter

method

binding

Data Security

(2) Inheritance?: parent-child concept

code sensibility

Simple Cal is

Add

Sub

Mul

Div

if op

Sci-Cal → extends Simple Cal

↓ additional func.
+ add

(3) Abstraction : Hiding the inner details
↓
Common class { Reduce Complexity }

- Complex functionality →

}

↳ 4) polymorphism:

Many Forms →

Wash()



vego

area(int n)

area(int x, int y)

Pointer → C++

M/m Allocation
deallocation



JAVA →

→ Removed pointer concept



Secure ✓

No need to call methods to
allocate / de-allocate M/m

Garbage Collection concept

JAVA install - 8 stable
Intellij Editor install