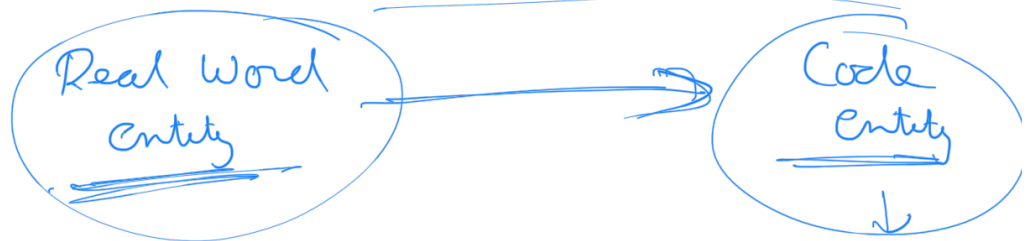


LLD

Object oriented



① Properties ←

② Actions ←

Class

⇒ { → Attribute
⇒ { → Methods

Birds

↳ height
→ color
→ weight
→ flying speed
→
⋮

↳ fly ←
eat
Sleep
Chirp
Hunt
lay eggs

class Bird {

~~Print~~ double ht, wt, fl
↑ String color;

void fly (String type);

⇒ // flap wings;
}

{ String getcolor() {
→ return color;
}

void set up ...
→

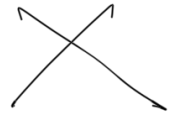
Bird eagle = new Bird(?);
'Constructor'

eagle.fly("eagle"); → e

Bird parrot = new Bird();
parrot.fly("parrot");

Bird kiwi = new Bird();

kiwi.fly("eagle")



Inheritance



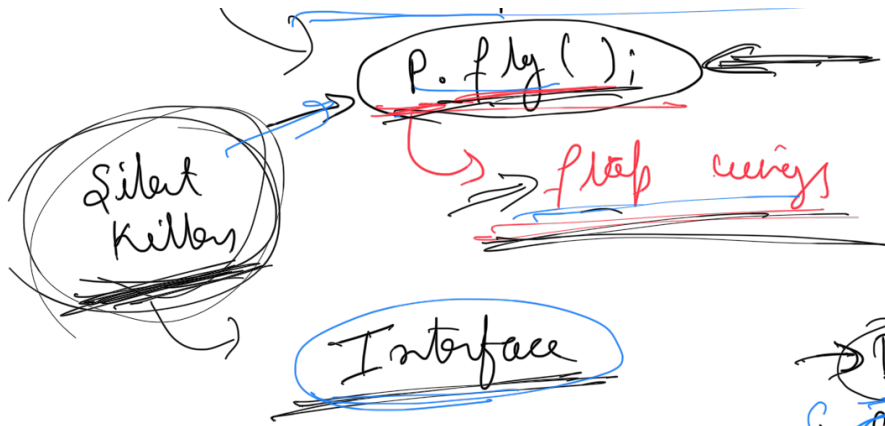
class Eagle extends Bird {
void fly() {
→ super.fly();
// fly high
}

class Kiwi extends {

→ { void fly() {
super.fly();
// don't fly.
}

class Parrot implements Bird {
{ fly() }

Parrot p = new Parrot();



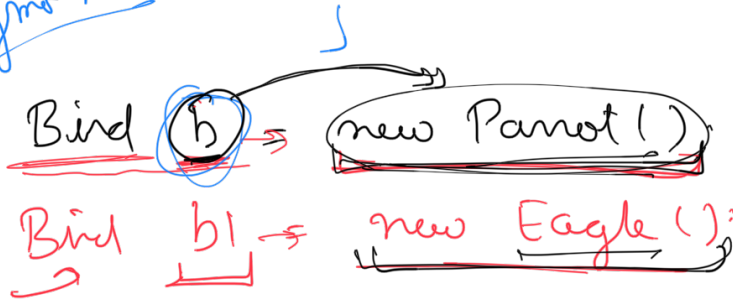
```

Bird {
    fly();
    eat();
}

```

fly() {
fly();
}

Polymorphism



```

class Seller {
    void sellBird(Bird b) {
        Cost = getCost(b.getCost());
        b.cost = ' '
    }
}

```

b.cost = '1000000' VS

b.age = 1000000

```

void setCost (str c)
{
    [red, blue, green, ...]
}

```

```

void setAge (int A)
{
    ...
}

```

... class Boy { ... }

^{Primer}
int wt, ht;

^{Primer}
int getWt();

void setWt(int x) {
→ if (x > --)
}

Encapsulate

Sqrt(x)

Class X

{
public void func(A) {

A = M1(A);

A = M2(A);

return A;

}

public M1(x) {

}

Boy b = new Boy();

→ b.wt = 100;

b.wt = 100000;

b.ht = 100000

→ Inheritance

→ Polymorphism

→ Encapsulation

→ Abstract

→ on

→ off

① Structural Exp

⇒ ② Behavioral Exp

→ Use case

→ function

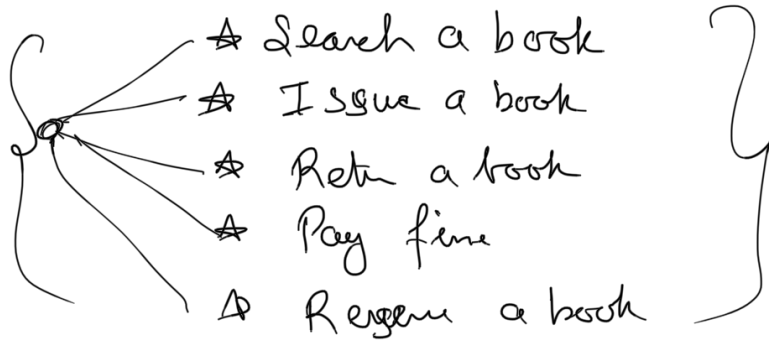
→ feature

→ What is the μ of the

⇒ Search for products
 { L → " "
 { L → ' '

Library Sys

Functional Use cases

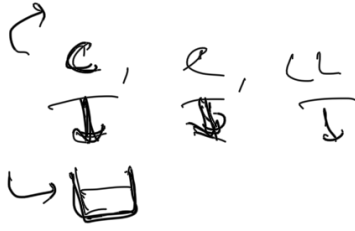


Non-functional
uses cases }



Design Coffee

① → Coffee Machine makes diff. beverages
based on set ingredients



② Coffee m_c → Proper
Beim
inqual.

① hint req.

~~Cap~~ collection

② List entities

③ ↓ ↳ Proper noun
 ↳ action

④ Identify relation

Benege has a recipe

→

↳ having multiple tags

