Style

Simula

SmallTalk

Object Oriented
    Programming (OOP)

Abstraction — SRP
Encapsulation — OCP
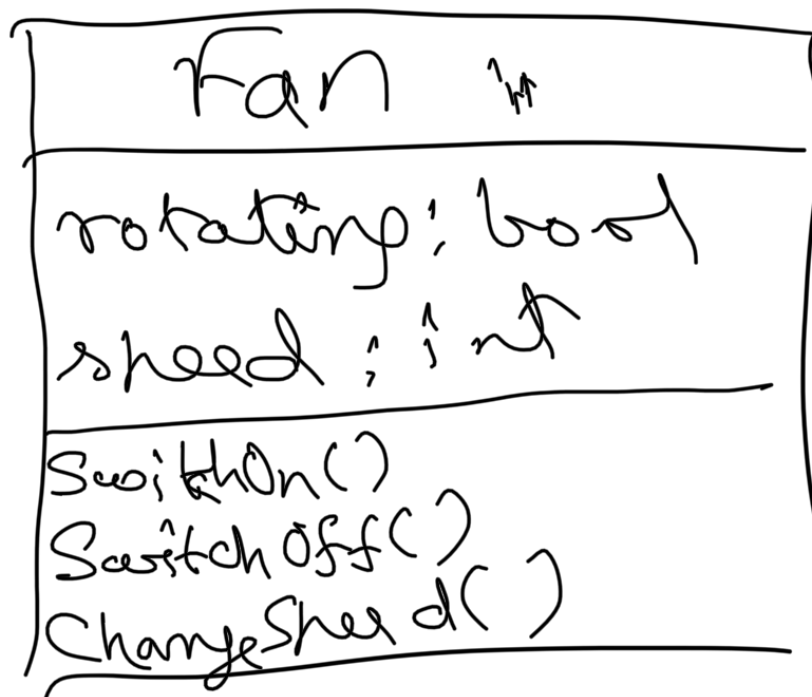Inheritance ⌉ LSP
Polymorphism ⌋ ISP

Polymorphism ...

class

```
┌─────────────────────────────┐
│            Fan              │
├─────────────────────────────┤
│  rotating: bool            │  } fields
│  speed : int               │
├─────────────────────────────┤
│  SwitchOn()                │
│  SwitchOff()               │  } methods
│  ChangeSpeed()             │
└─────────────────────────────┘
```

id-0   id-1   id-2
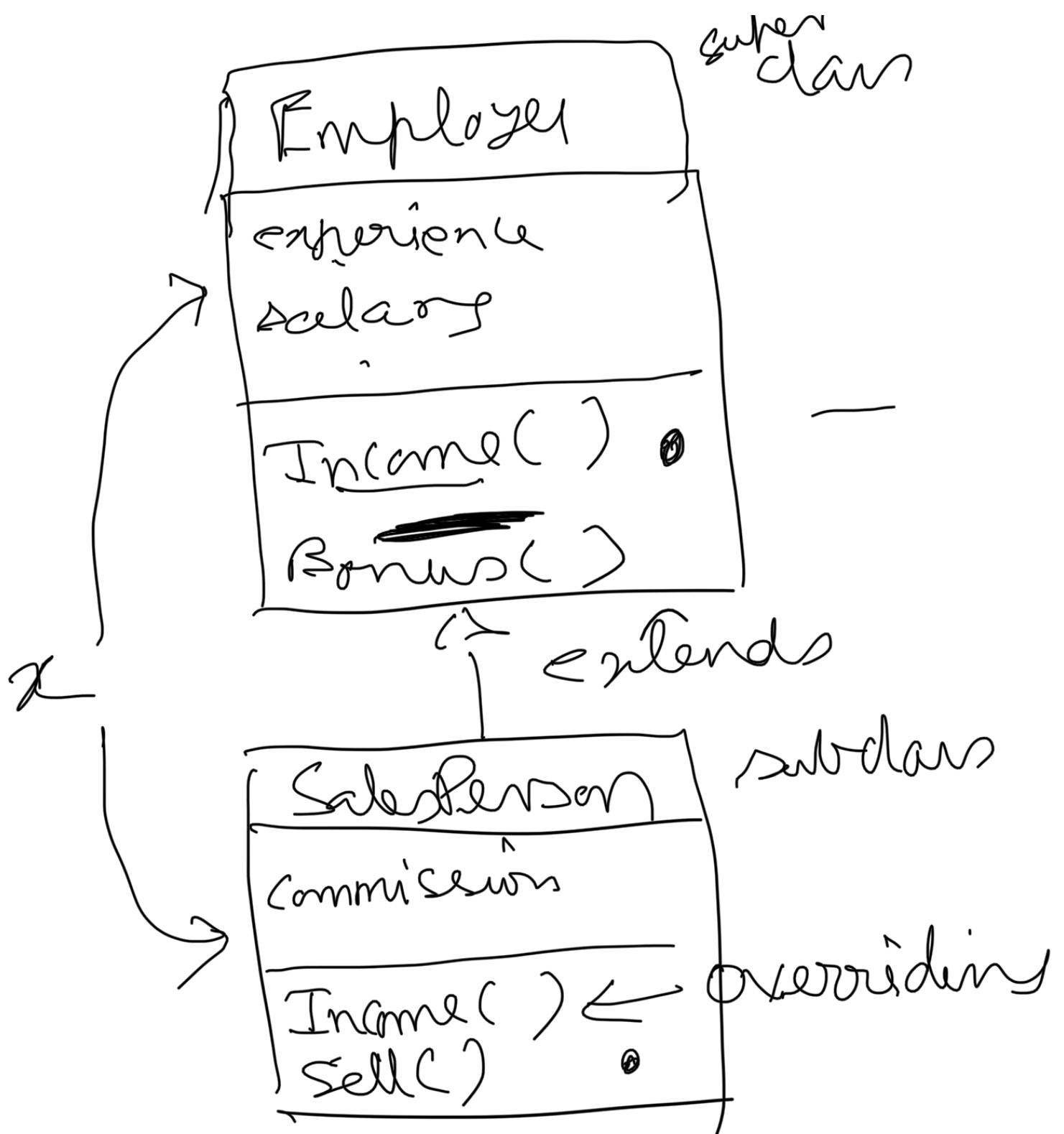
Fan   kitchen, bedroom, hall ;

rotating: false   rotating: true
speed : 0   speed : 5

rotating: true
speed : 3

kitchen. SwitchOn( )
kitchen. ChangeSpeed(2)

→ Fan. SwitchOn (id_0)

Employer — super class

experience
salary

Income( )
Bonus( )

extends — subclass

SalesPerson

commission

Income( ) ← *overriding*
Sell( )

x

x.Income( )
x.Bonus( )