

OOP

object → place in memory
→ special variable

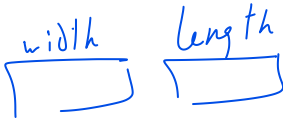
class → code → Define operations on objects

How to create an object?

Student

Trainer

Course

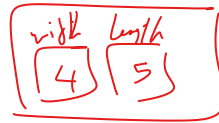


$$\text{area} = \text{width} \times \text{length}$$

OOP

Rectangle

width
length



Rectangle(-, -)
getArea()



$$\text{bmi} = \frac{\text{weight}}{(\text{height}/100)^2}$$

< 18.5 Underweight

< 25 Normal

< 30 overweight

Obese

OOP

Patient

name
weight
height

Patient(-, -, -)

getBMI()

getStatus()

name salary hireYear

annualSalary = salary * 12
servicePeriod = 2022 - hireYear

W.W
9.1, 9.2

OOP

Employee

name
salary
hireYear

Employee(-, -, -)

getAnnualSalary()
getServicePeriod()

name mark fullMark

$$pct = \frac{\text{mark}}{\text{fullMark}} * 100$$

> 85 Excellent
> 75 V. Good
> 65 Good
> 50 Pass
Fail

OOP

Student

instance variable

Name
mark

static variable

fullMark

Student(-, --)

getPercent()
getGrade()

K 23 25

set

get

B 19 25

Account

name
- balance

annualRate = 0.04

Account(-, -)

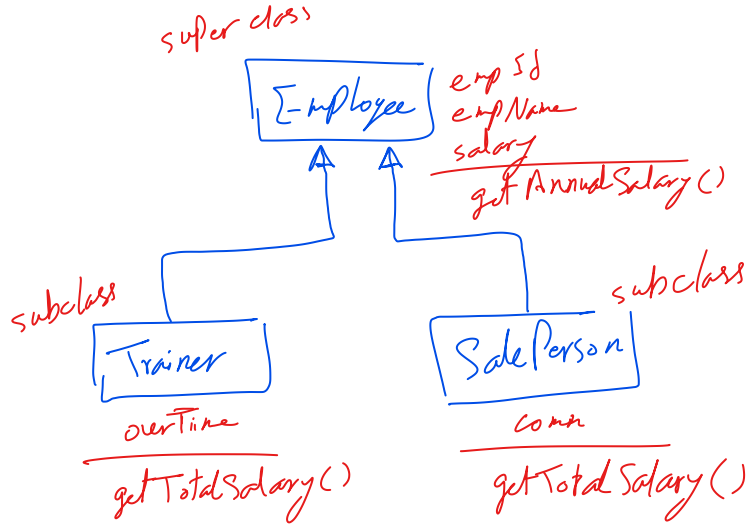
getMonthlyRate()

getMonthlyInt()

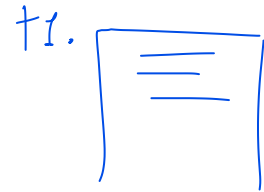
deposit(amt)

withdraw(amt)

getBalance()



Trainer t1 = new Trainer(--)



W.W

9.10 , 10.1

