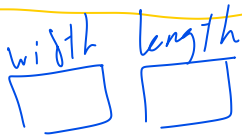
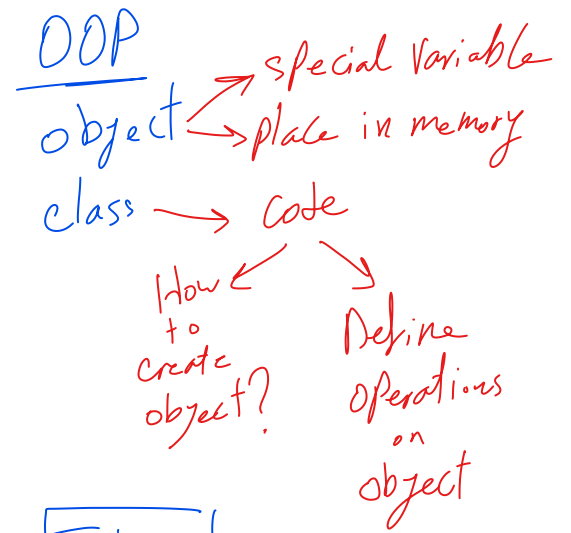


Student

Trainer

Course



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

OOP

Room

width
length

Room(w,l)
GetArea()



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

< 18.5 Underweight

< 25 Normal

< 30 overweight

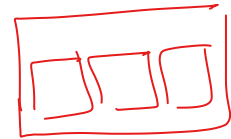
obese

OOP

Patient

name
weight
height

Patient(---)
calcBMI()
GetStatus()



| name | salary | hireYear |
|------|--------|----------|
| | | |

$\text{annualSalary} = \text{salary} * 12$
 $\text{servicePeriod} = 2022 - \text{hireYear}$

OOP

Employee

name
 salary
 hireYear

Employee (-)

Get AnnualSalary()

Get ServicePeriod()

| name | mark | fullMark |
|------|------|----------|
| | | |

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

> 85 Excellent

> 75 V. Good

> 65 Good

>= 50 Pass

Fail

OOP

Student

instance variables { name
 mark
 static variable ← fullMark

Student (-)

Get Percent()

Get Grade()

81

| | | |
|---|----|----|
| A | 23 | 25 |
|---|----|----|

| | | |
|----|----|----|
| 15 | 19 | 25 |
|----|----|----|

set

get

Account

name
 - balance
annualRate

Account (-)

Get MonthlyRate() → ar / 12

Get MonthlyInt() → mr * balance

Deposit(amt) balance += amt

Withdraw(amt)

x

| | |
|---|---------------|
| 0 | Saudi Arabia |
| 1 | Egypt |
| 2 | Arab Emirates |
| | |

$cw(x[2])$

$cw(y["ae"])$

y

| | |
|-----------|---------------|
| 966 sa | Saudi Arabia |
| 966 eg | Egypt |
| 971 ae | Arab Emirates |

Course

title

price

students

Course(t, p)

AddStudent(-)

DropStudent(-)

GetNumOfStudents()



