Data Science & AI
&
NIC - Param

Python-For Data Science

OOPs

Lecture No.- 01

By- Pankaj Sharma Sir

Recap of Previous Lecture

Topic Functions 3

Topics to be Covered

Topic Object-Oriented Programming Part -01

Topic : Object-Oriented Programming

functional / procedural

↓

C

playing() {

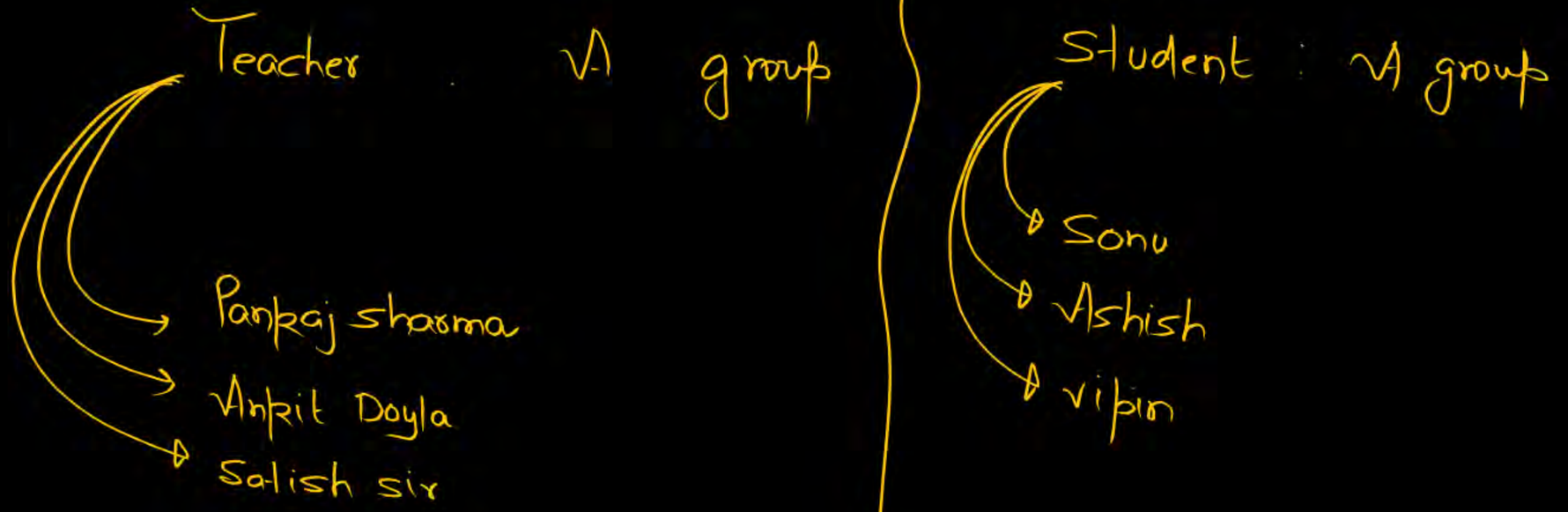
}

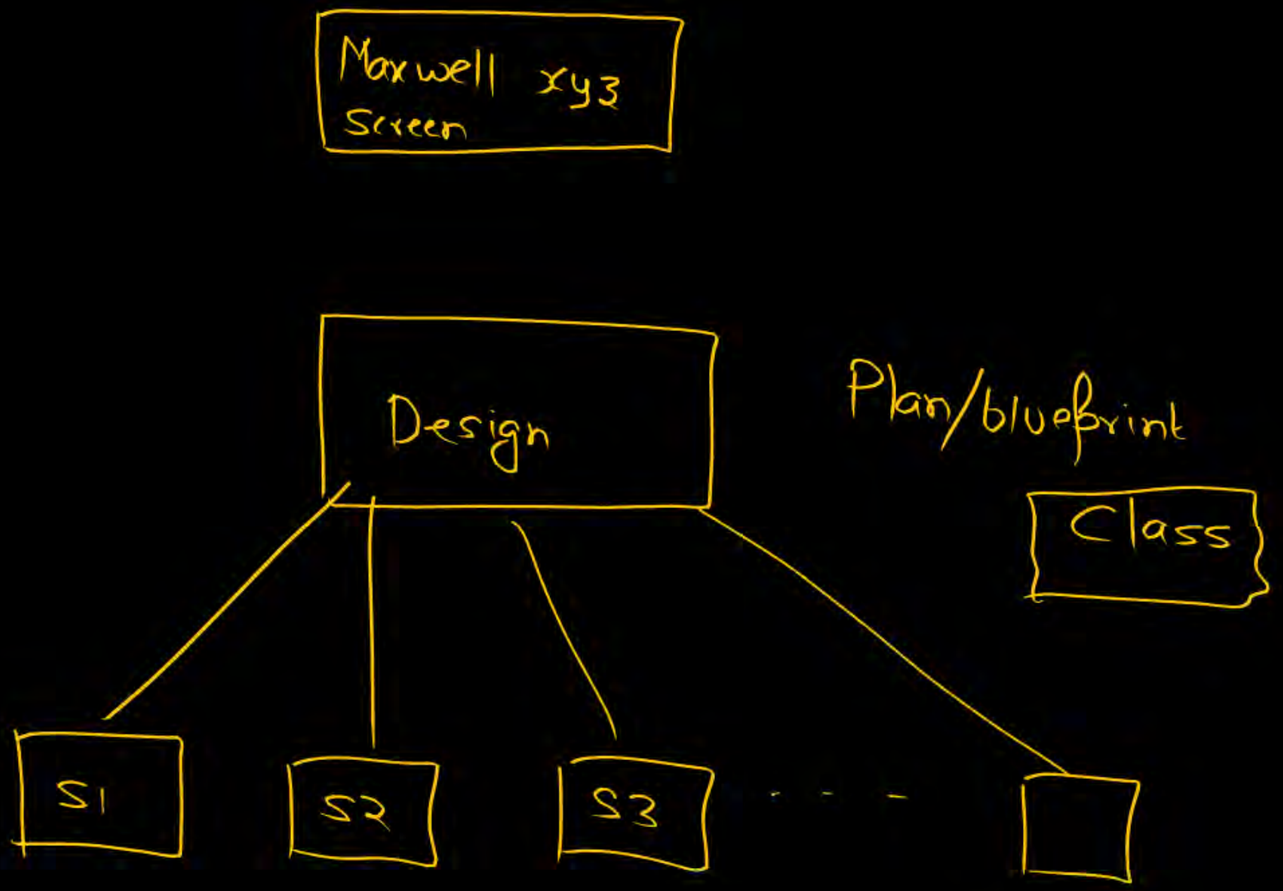
Running() {

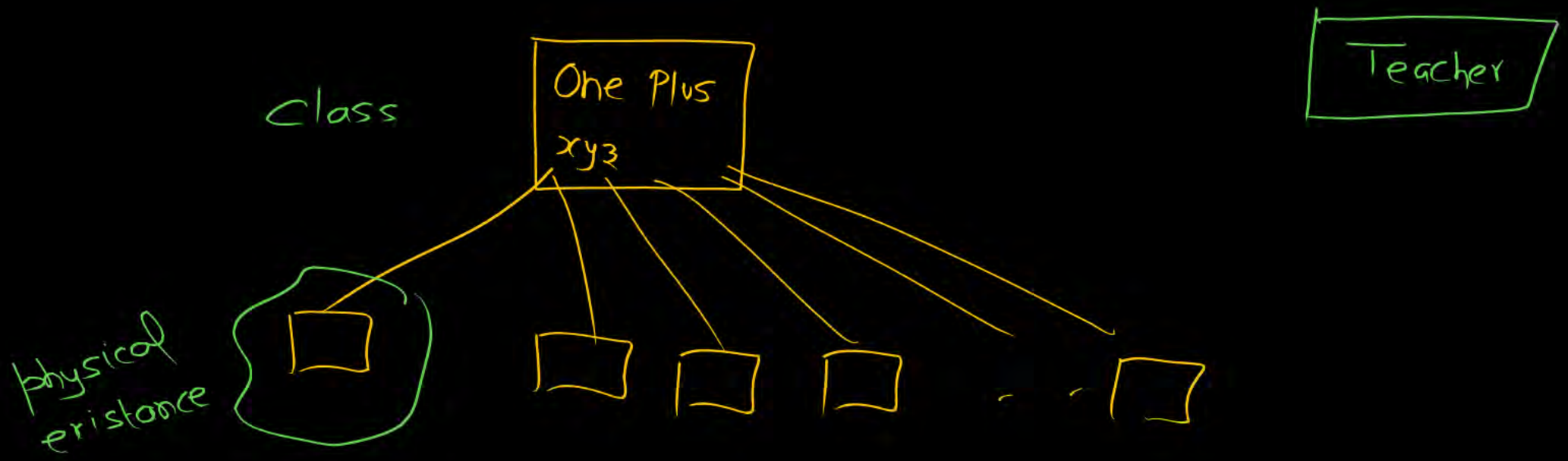
}

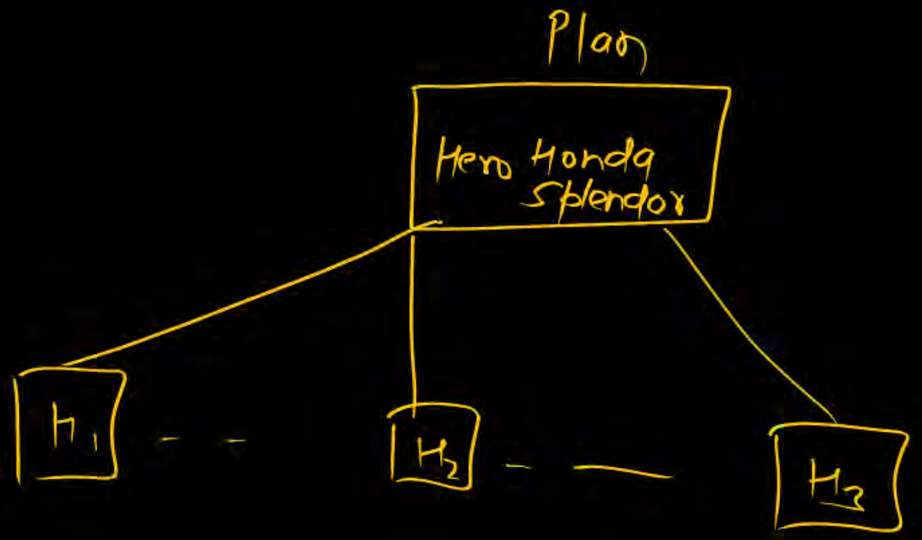
object oriented

1. playing()
2. Pankaj.playing()


Teacher
VA group
Pankaj sharma
Ankit Doyla
Salish sir
Student : VA group
Sonu
Ashish
vipin


Maxwell xy3
Screen
Design
Plan/blueprint
Class
S1
S2
S3


Class
One Plus
xy3
Teacher
physical
existance

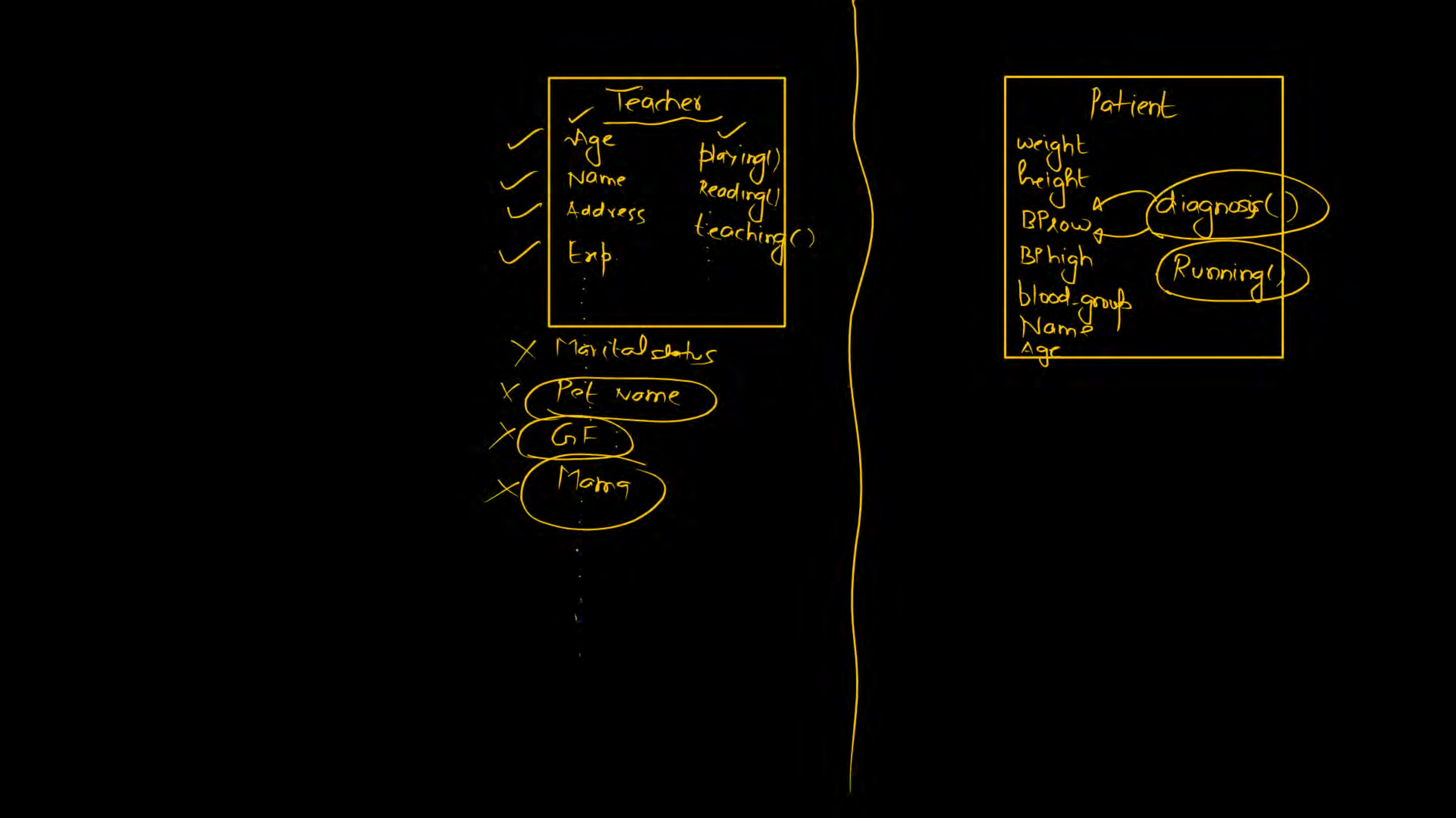


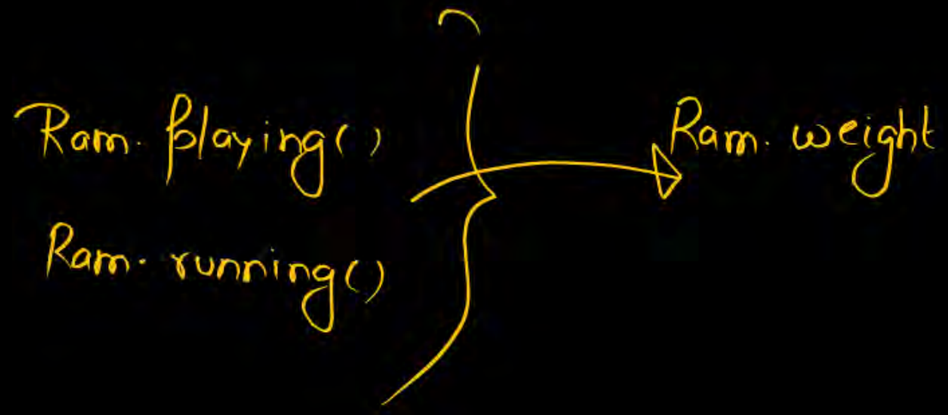
How many objects can be created

for 1 class

⇓

Any no. of Objects


Teacher
Age
Name
Address
Exp
playing()
Reading()
teaching()
Marital status
Pet name
GF
Marry
Patient
weight
height
BP low
BP high
blood_group
Name
Age
diagnosis()
Running()


Ram. playing()
Ram. running()
Ram. weight

Pankaj_sir. teaching()
Pankaj-sir. salary

Running()

Bank

Account

- Account_no
- Name
- Age
- Address
- Balance

Actions

- Account_opening()
- check_Balance()
- Withdrawl()
- Update()

Withdrawl() → Balance

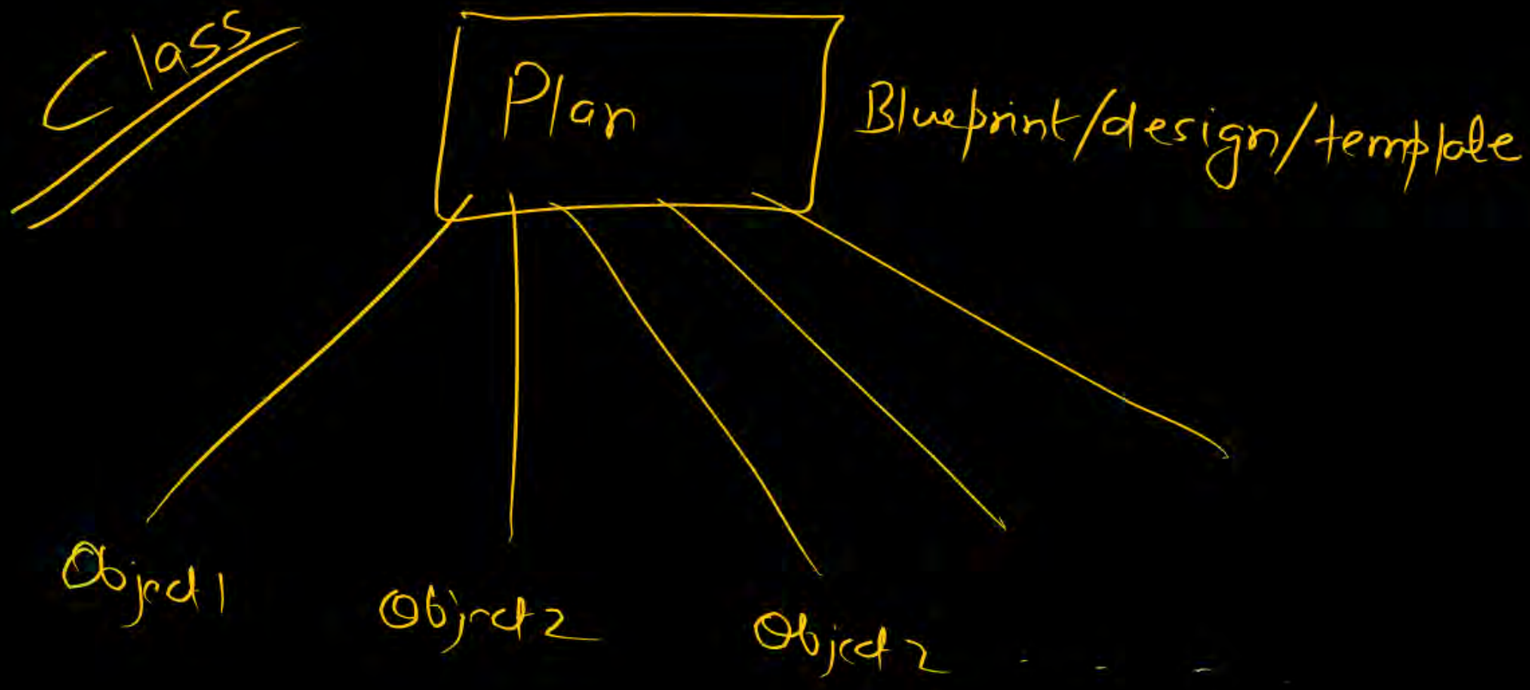
S/W

decide

Student

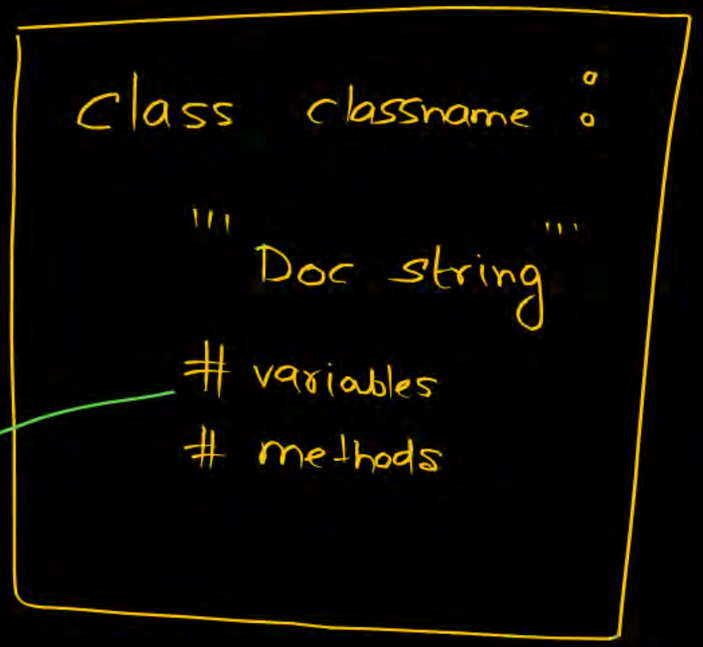
Actions/methods

thousands
of
properties



properties → variable

Actions → methods



3 types

(i) Instance variable
(ii) static var.
(iii) Local variable

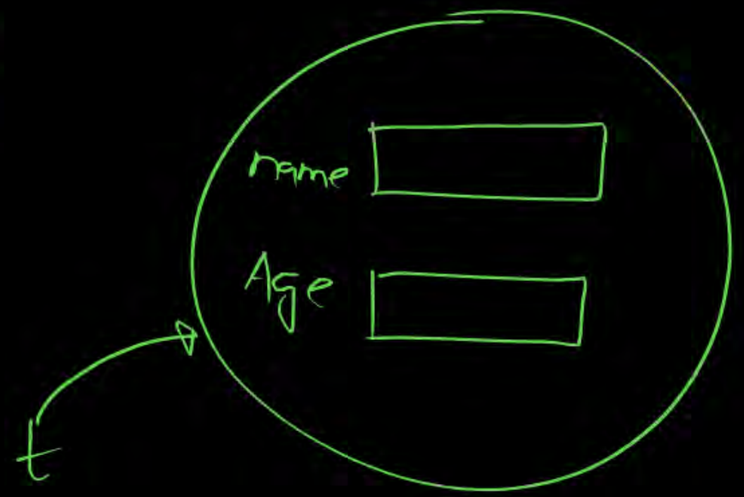
```
class Teacher :
    '''This is my class template'''

    def __init__(self):
        self.name = 'Pankaj'
        self.Age = 41

    def display(self):
        print(self.name)
        print(self.Age)
```

t = Teacher()

execute



t = Teacher()

initialize

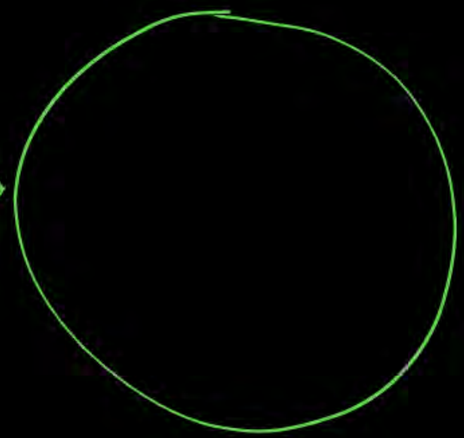
a = 10

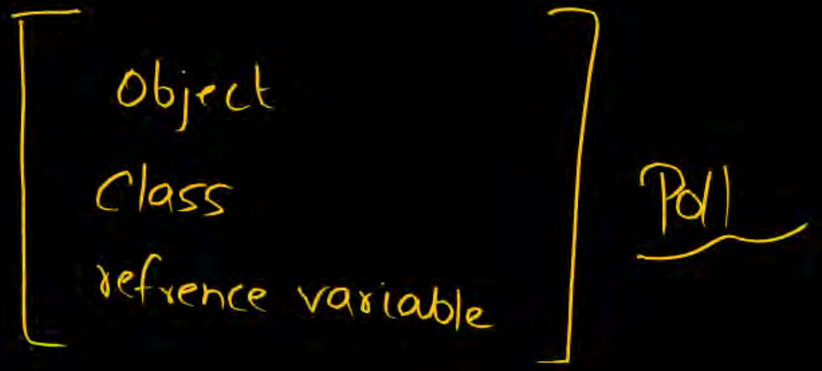
ⓐ object is created / memory is allocated

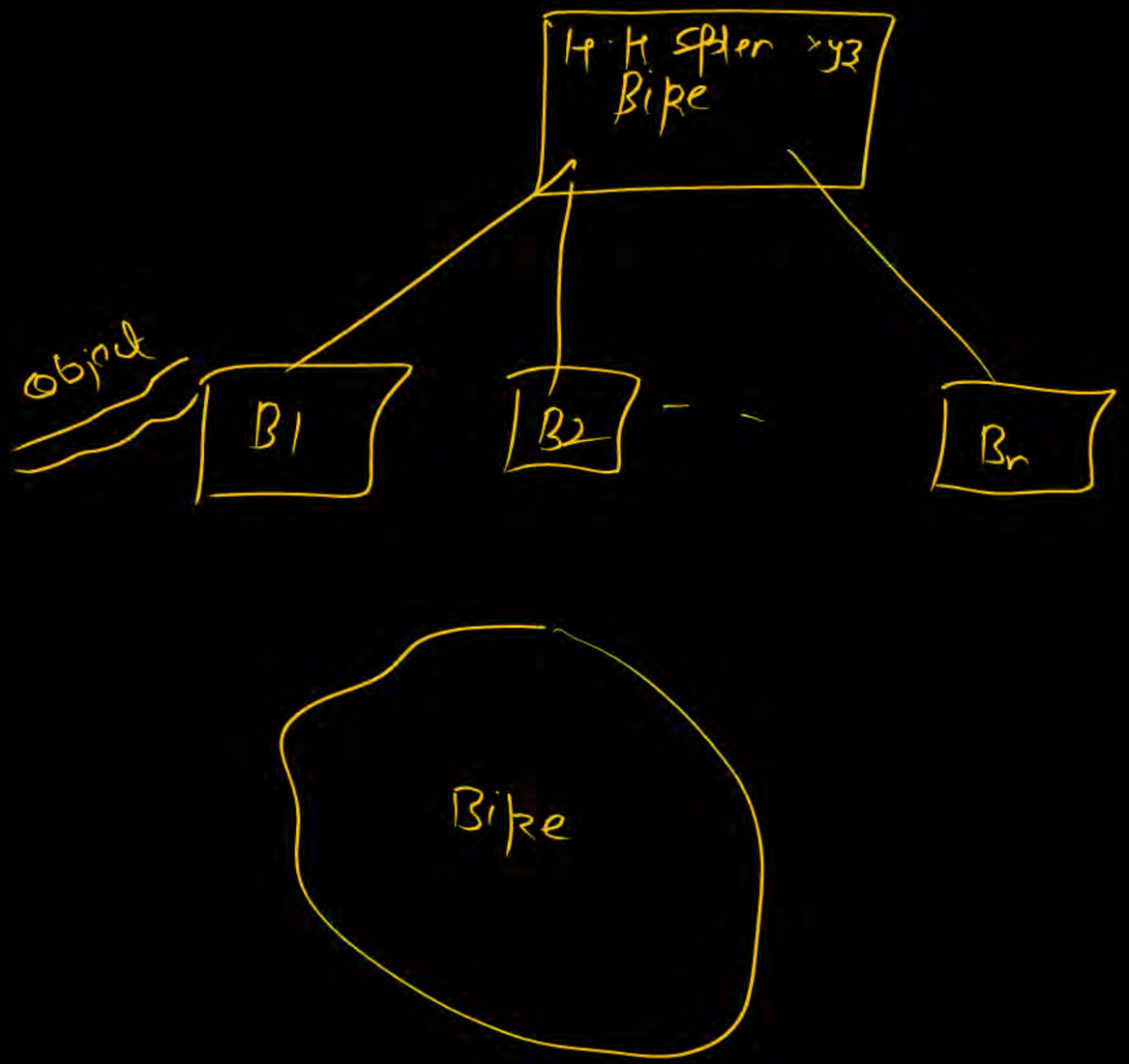
PVM

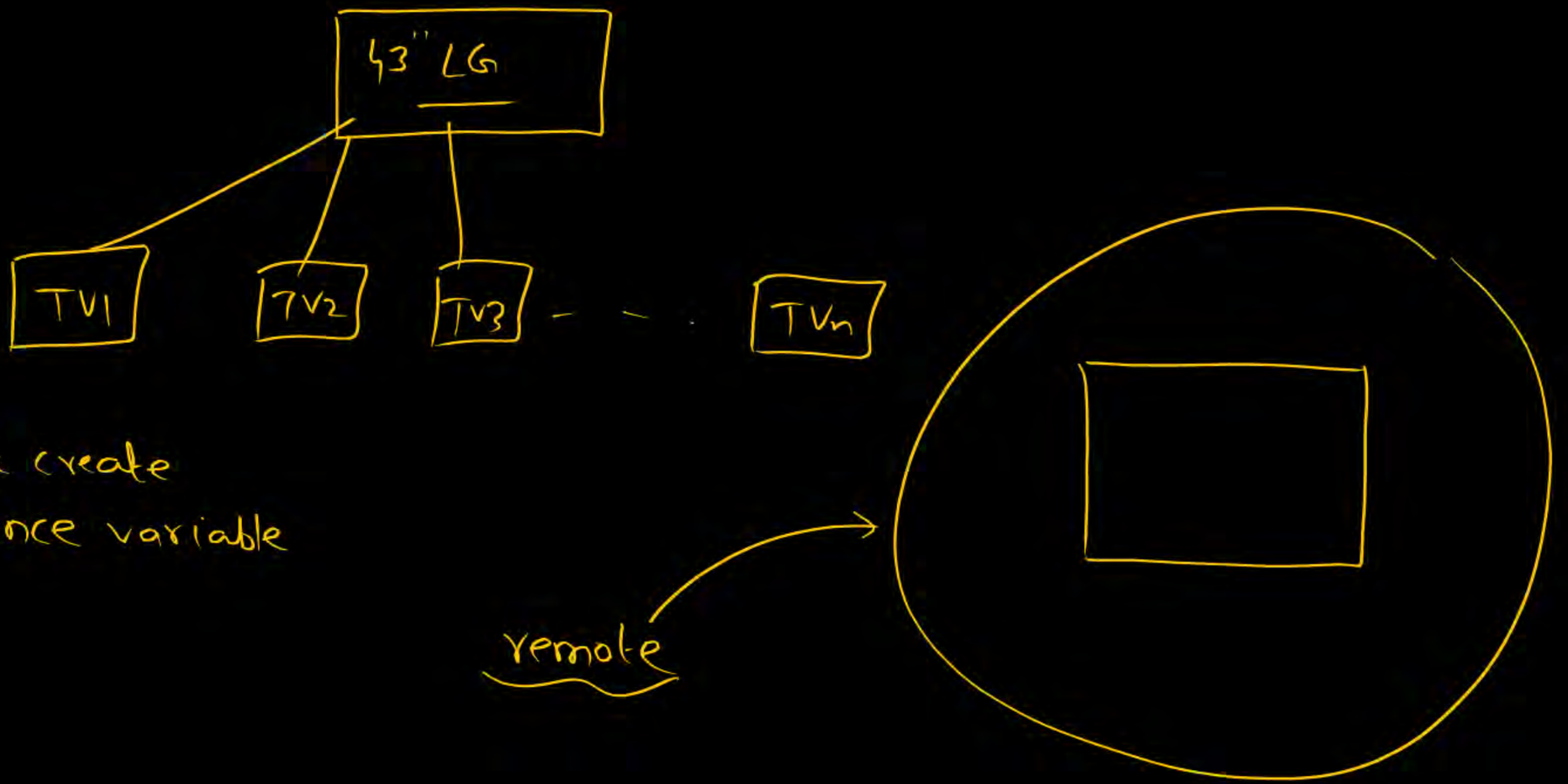
ⓑ --init--() is executed

ⓒ t



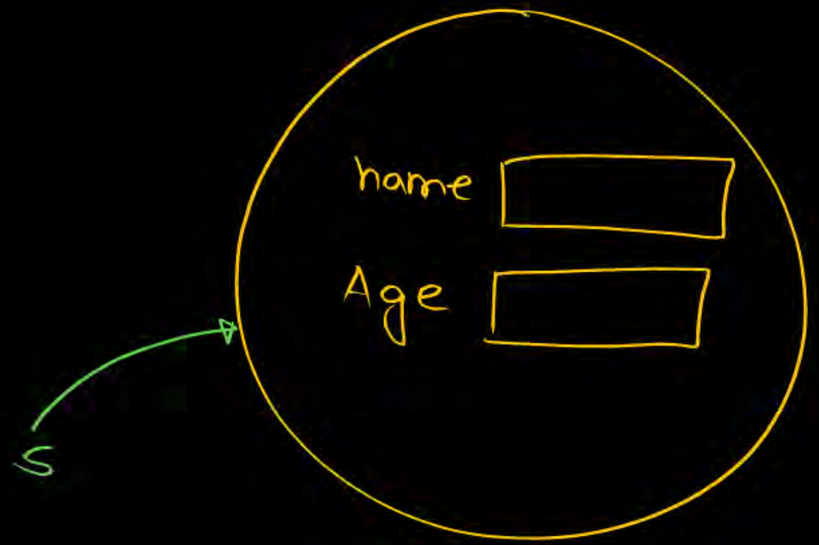

Object
Class
refrence variable
Pdl


H.H Spler xyz
Bike
object
B1
B2
Bn
Bike


43" LG
TV1
TV2
TV3
TVn
1) Object create
2) refrence variable
remote

Student()

s = Student()



THANK - YOU