

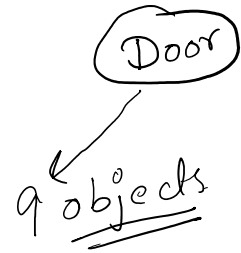
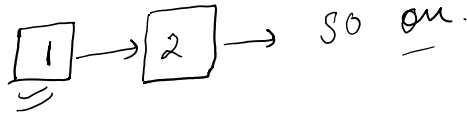
"Everything is Object in Python"

⇒ Object Oriented Programming

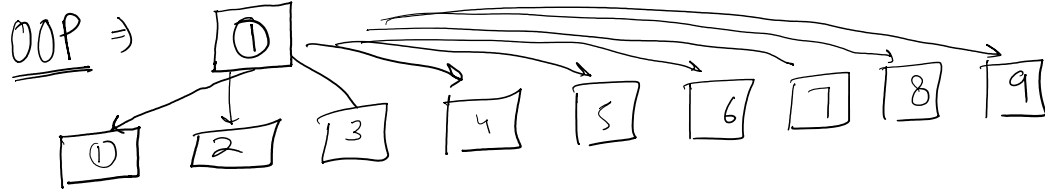
Why?

Scenario :- Building a house

① Non-OOP ⇒ 10 doors



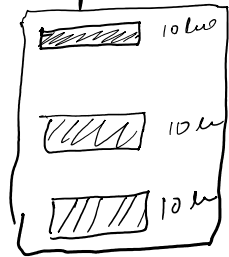
Save time



② Coding Structure

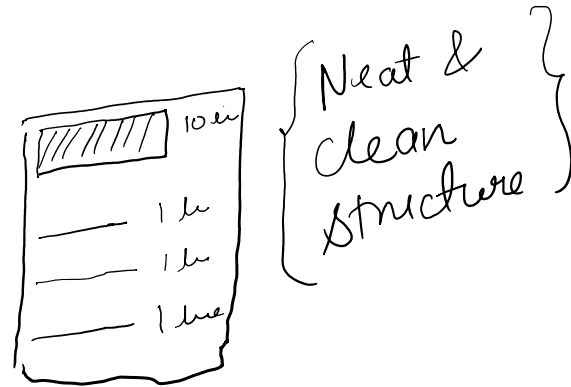
Non-OOP ⇒ 1 door → 10 line of code
10 doors → 100 lines of code

{ Code messy
Complex structure }



OOP ⇒ 1 door → 10 line of code class

10 object → 1 line of code
⇒ 20 line of code



{ Neat &
Clean
structure }

③ Uses

Non-OOP ⇒ learning purpose → school, colleges
(bare strong)

OOP ⇒ development purpose
(companies, businesses)

EXAMPLES

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① Window Vs Kali Linux
Normal (OOP)

② first time trying Pizza
Non-OOP
(Self-made)

- * collect all ingredient by own
(Hectic)
- * Taste → no guarantee
(Performance X)
- * Kitchen → messy
(Code → messy)

OOP
(Restaurant order)

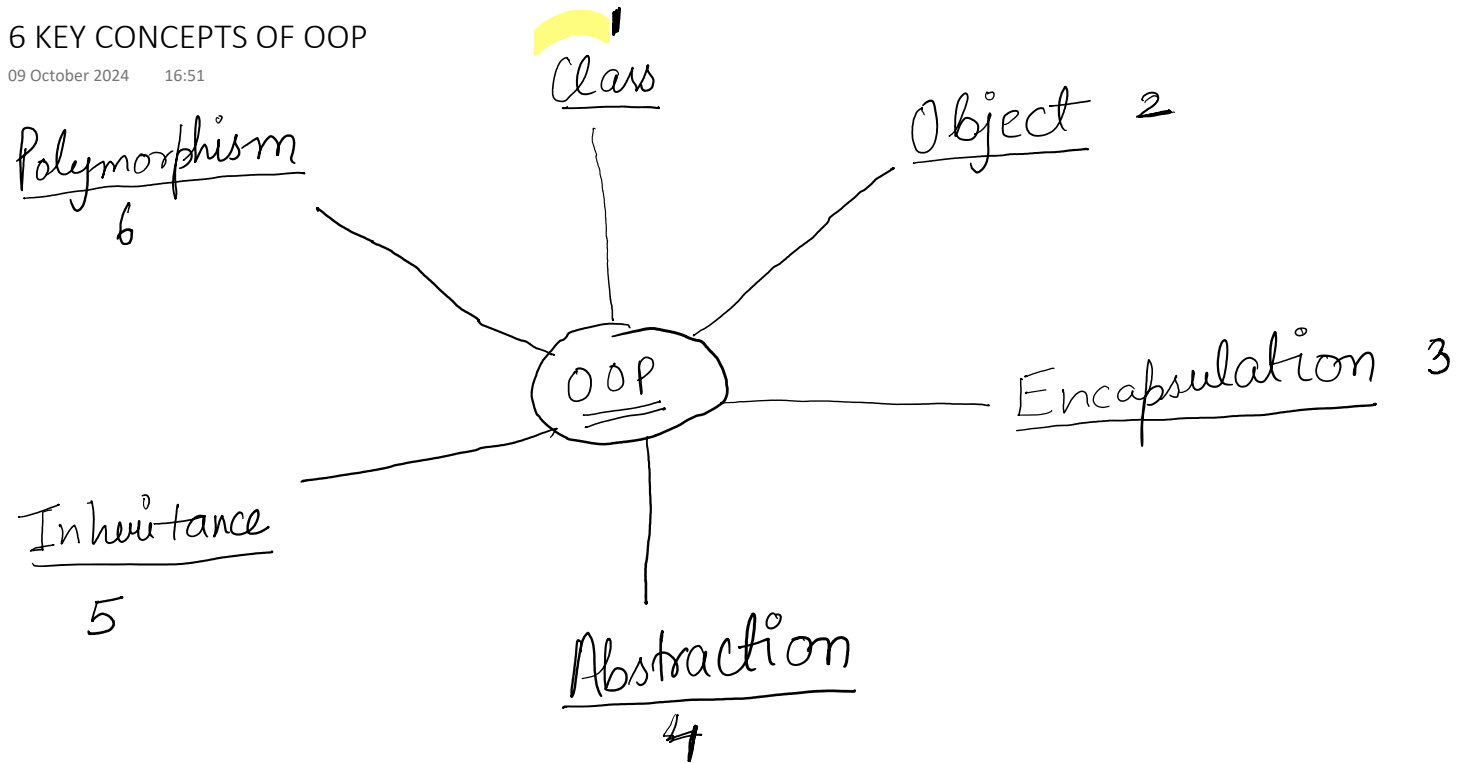
- * Ingredients → X (Not Hectic)
- * Menu → Pizza → class
 ↓
 Margherita Cheese form
 Burn fresh

object

- * Taste → ✓ (perfect)
(Performance ↑)
- * Kitchen → organised
(organized code)

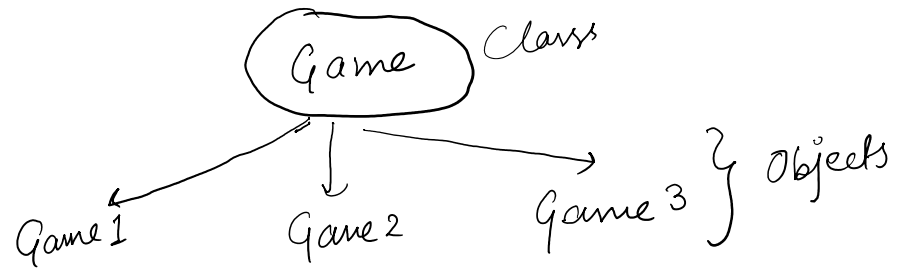
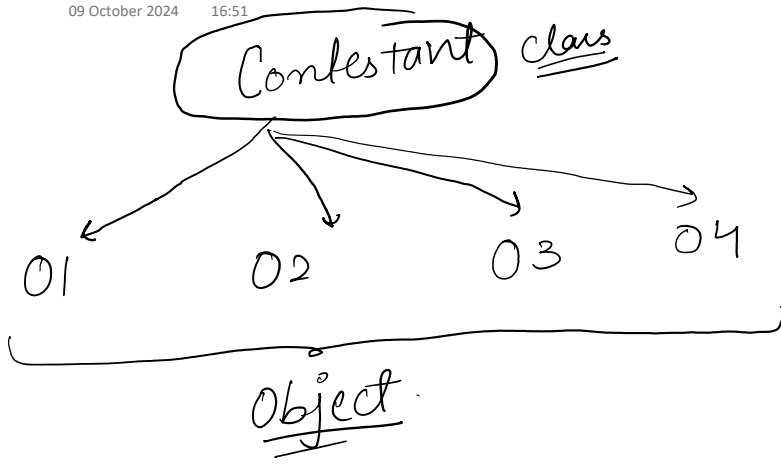
6 KEY CONCEPTS OF OOP

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CLASSES & OBJECTS

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ENCAPSULATION

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Data + function = Encapsulation
↓ ↓
(Attributes) (Methods)

Squid Game → Encapsulation

Combination of data & function

(Players, Host
VIP, frontman
money)

↳ (task/games)



ABSTRACTION

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(Displaying only important information)

What Players see

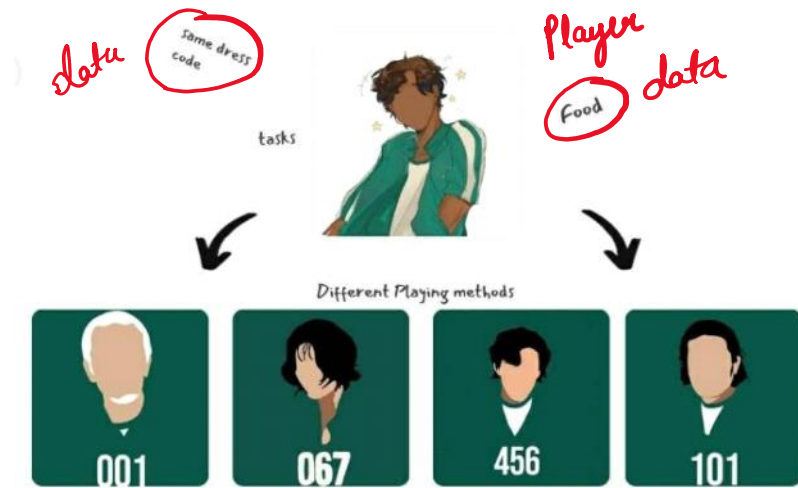
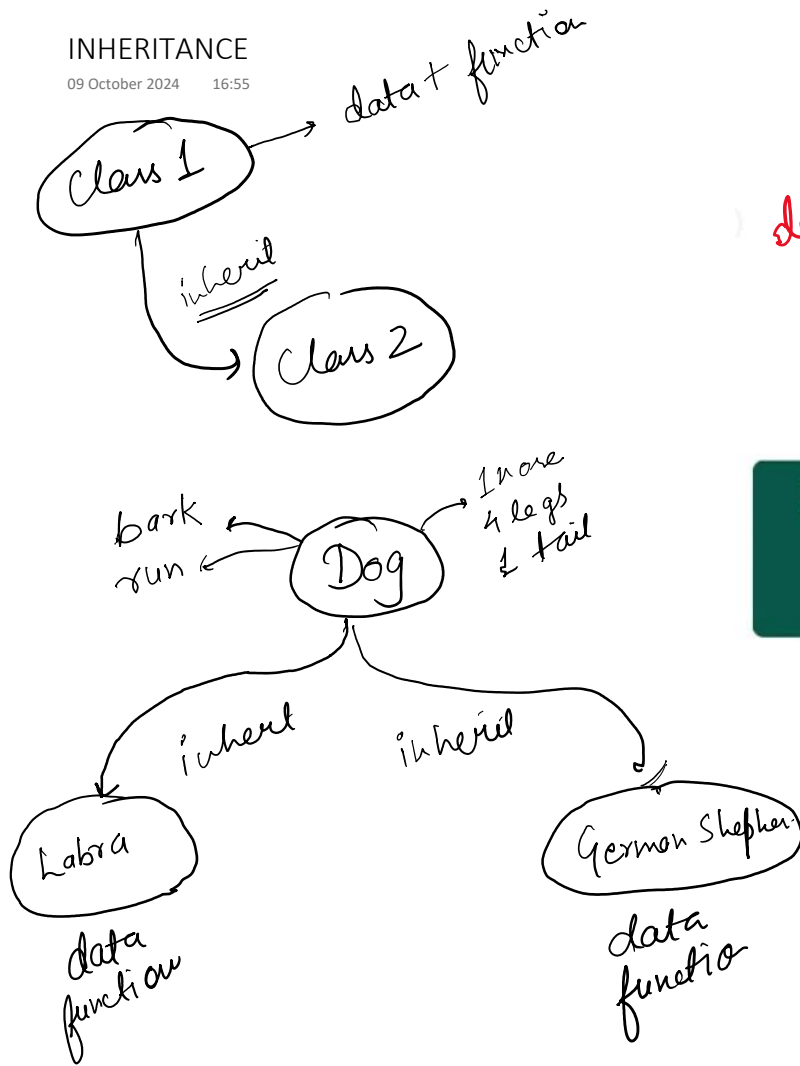


processes



INHERITANCE

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POLYMORPHISM

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Ability to exist in different forms.

