Getting Started With Programming

Friday, 15 July 2022 8:01 PM

Contents:-

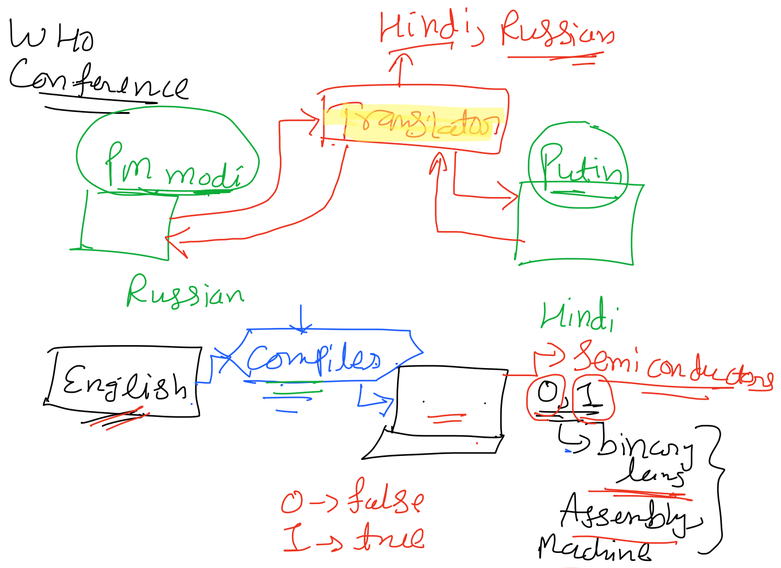
1. Programming.
2. Paradigms:-
3. OOPs
4. Approaches
5. Javascript:-

1. Introduction to Programming:-

Rahul → bake a cake → Recipe books

1. Dow
2. Sugar
3. milk
4. water
5. oven ⇒ 35°C

Instruc



② Paradigms:-

↳ method to solve task/Problem.

→ Prog. Paradigms:-

approach to Solve Problems using Prog. Paradigms.

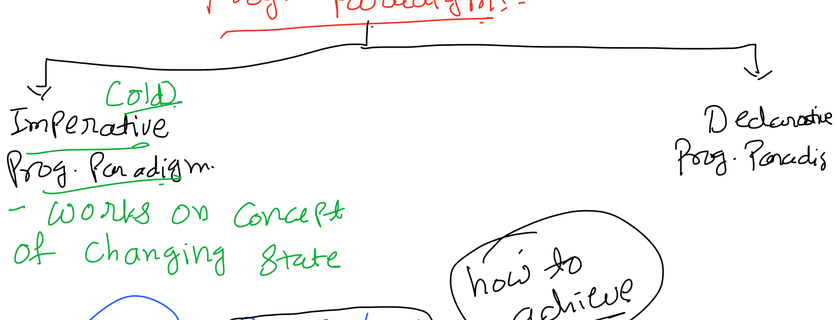
Bake a cake

Recipe book

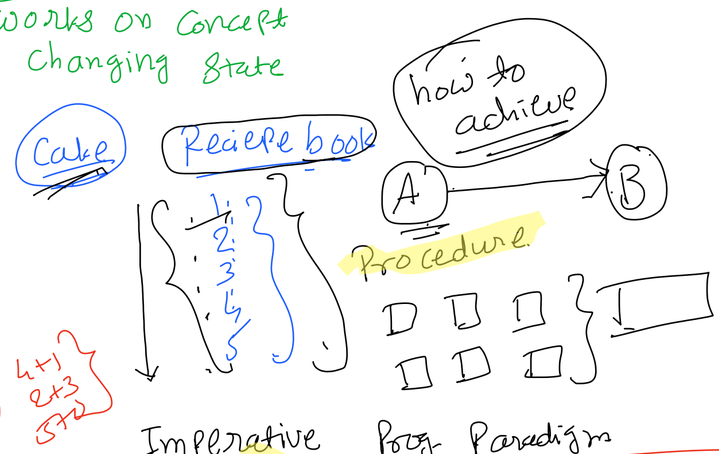
1
2
3
4

2 ≠ 3

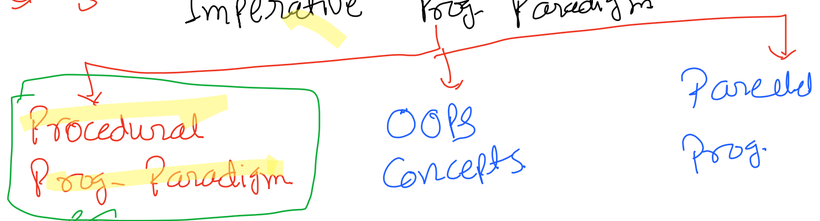
Prog. paradigms:-



- works on Concept of changing State



Imperative Prog. Paradigm

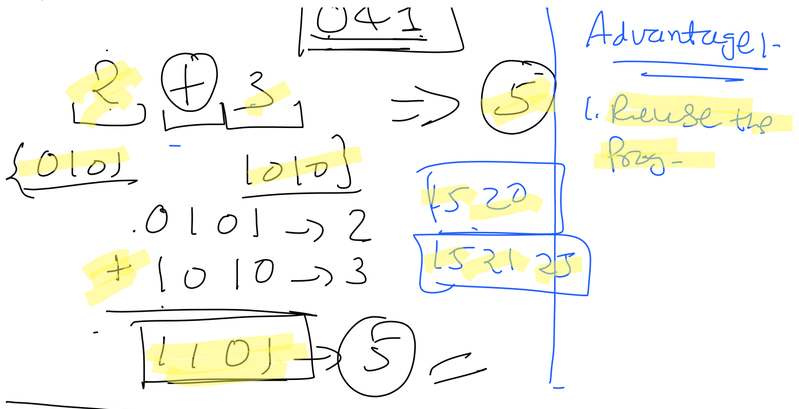


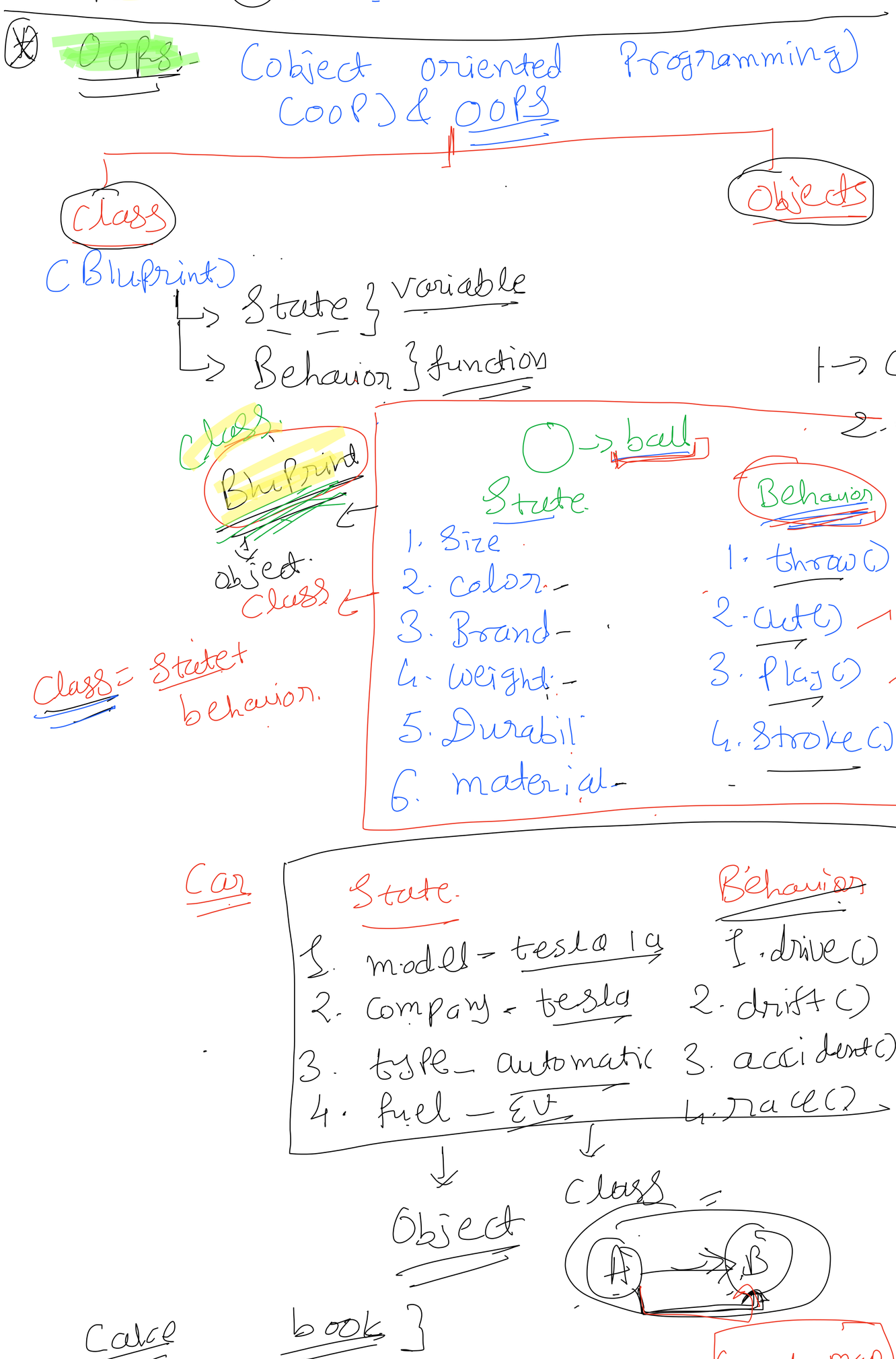
Send a file

Procedures

mail → file attached

1. network stream
2. transfer data bytes





State+ behaviors

1. Procedural :- focus was on Procedural
2. OOPS :- State & behavior.

Cake :- => Reciepe book -> Bake Cake } => Procedure

Oops :- ⇒ cake()

State
- weight - 500gm
- Chocolate
- Eggless

→ N/w bug.
- max file limit
- file/ binary

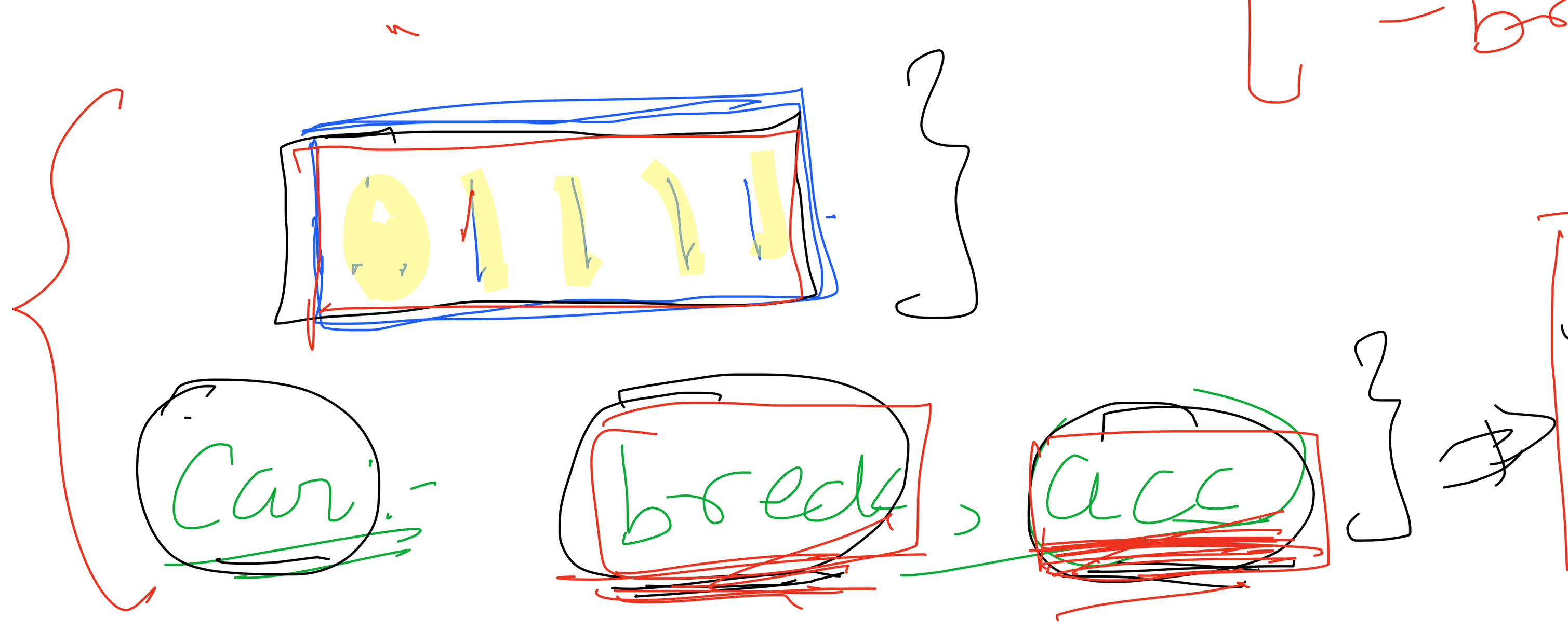
↓
- Pdf
- images
- SEO friendly

OOP Pillars

1. Abstraction
2. Encapsulation
3. Inheritance
4. Polymorphism.

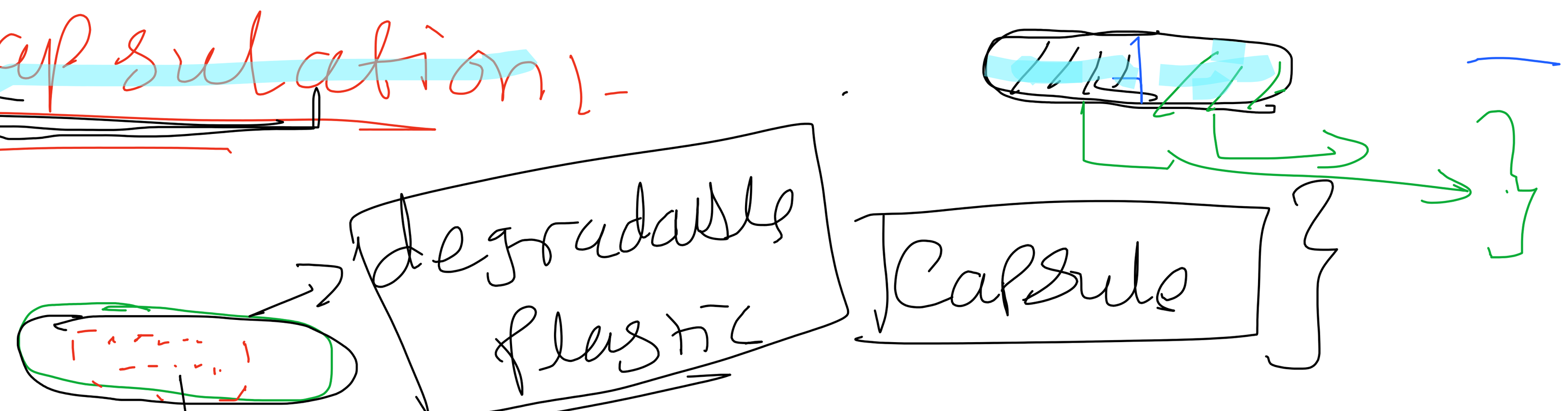
① Abstraction :-

1. broken mirror
- Sad
- angry
- break up



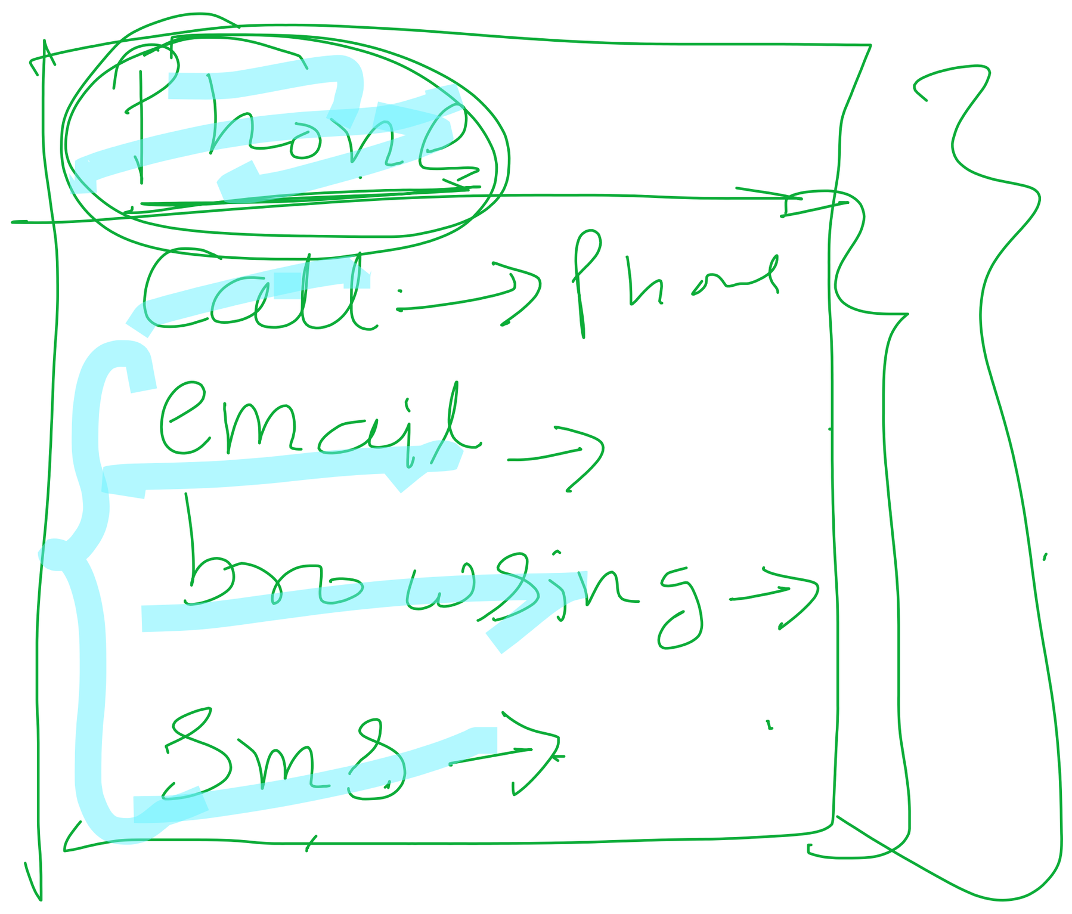
⇒ Show what is needed

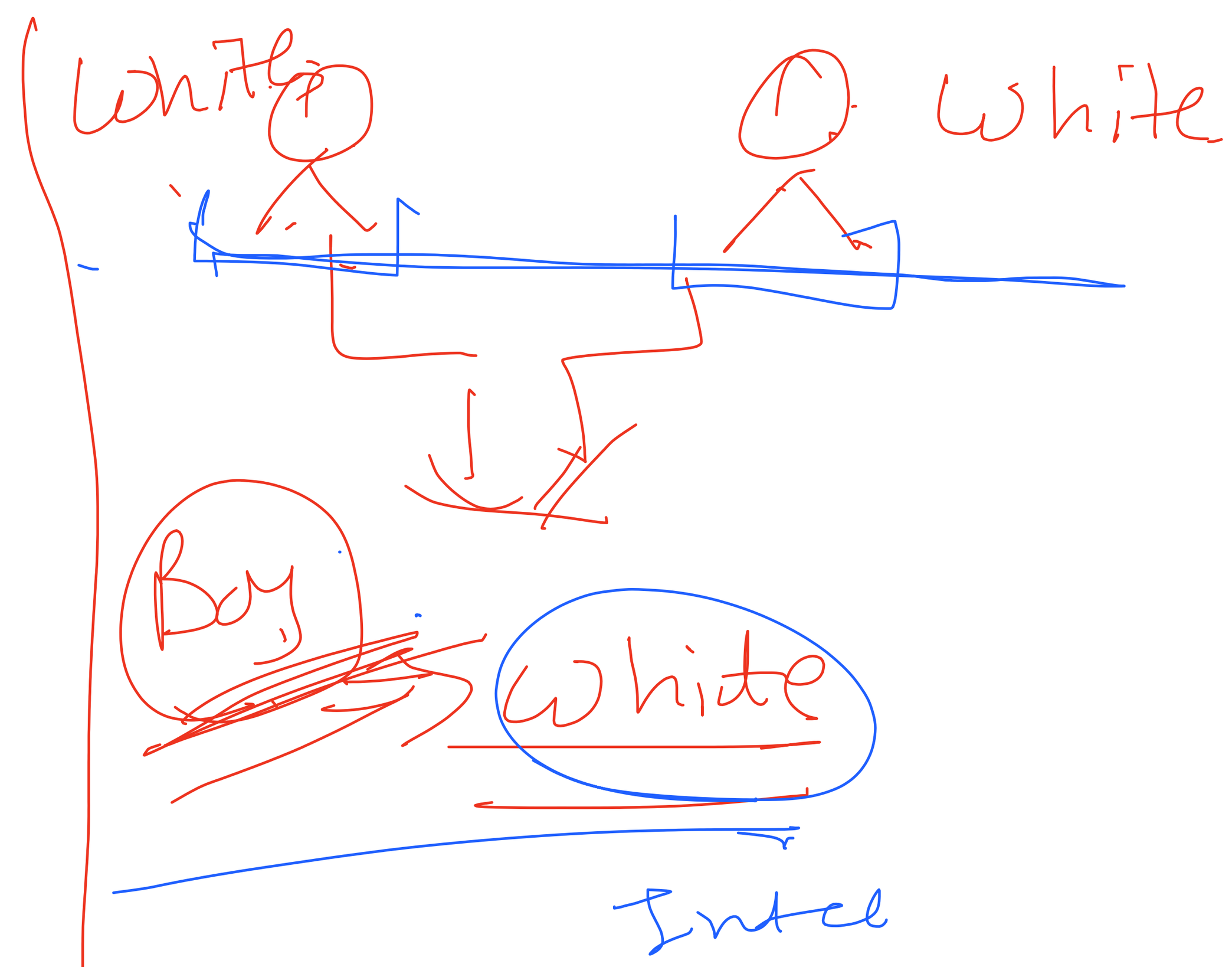
2. Encapsulation :-



→ Process of grouping units into single unit.

Phone } → originally made for calling
now → millions of things in phone





3. Inheritance :-

Parent/child class

Electronic gadget
- on
- off

Inheritance

Phone
- on
- off
- call

Smart Phone
- on
- off
- call
- taking Photos

iPhone
- on
- off
- call
- taking Photos
- airplay/airdrop

④ Polymorphism :- Same thing acting differently based on inputs

many forms

A. → call → friend. }

A. → call → clg. Proffessar }

add (2, 3) // inputs → integer.
// 5

add (2.5, 3.5) // input - decimal, float
// 6

add ("hot", "star") => hotstar

Hindi
math
English

⑤ Parellel Programming :-

home clone

Batch Programming

& people

Parellel Programming

② Declarative Prog. Paradigm :-

Functional Prog Paradigm

↳ focus → functionality

↳ agenda → behaviour

X data

E.g. Javascript
Python.

Cake

bakeCake()

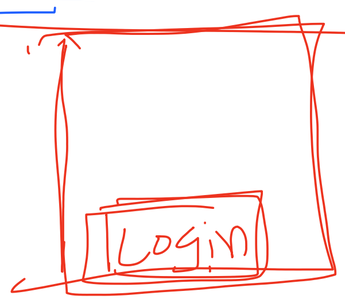
Database / Data driven Prog. Paradigm.

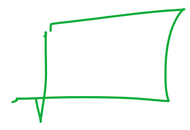
- focus would be entirely on data.

XX behaviour.

E.g. SQL
Structured Query language

Select name from employes



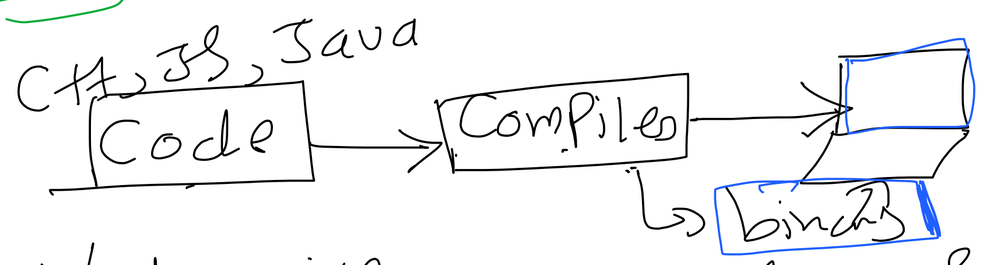


↳ topping of Cake.

↳ how ~~to~~ eat cake

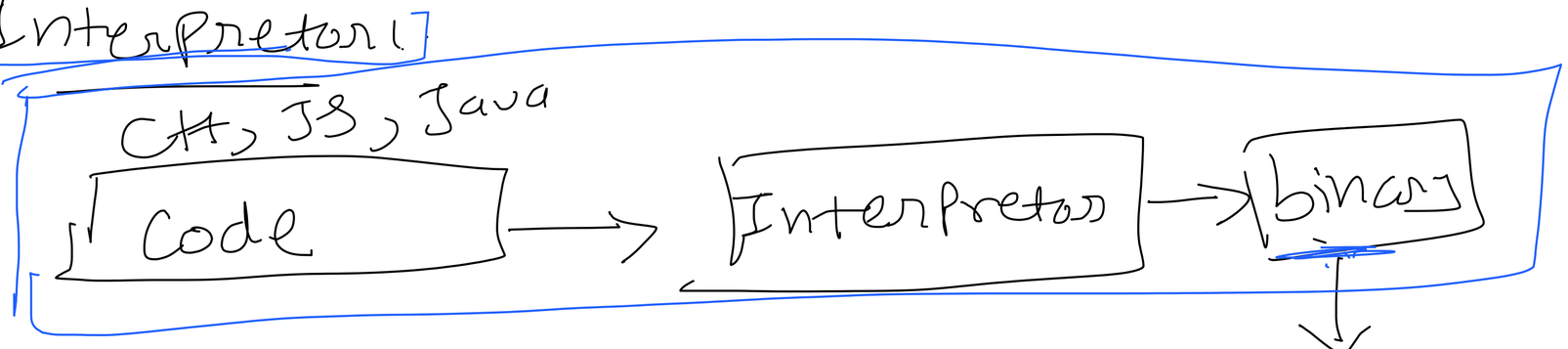
1. Procedural :- reciepe of cake.
2. OOP :- Cake's properties & behaviour
3. Parell Prog. :- Cut cake in slice & eat
4. Data driven Prog. :- { browsing cake shopf list down eggless shops.

④ Compiler :-

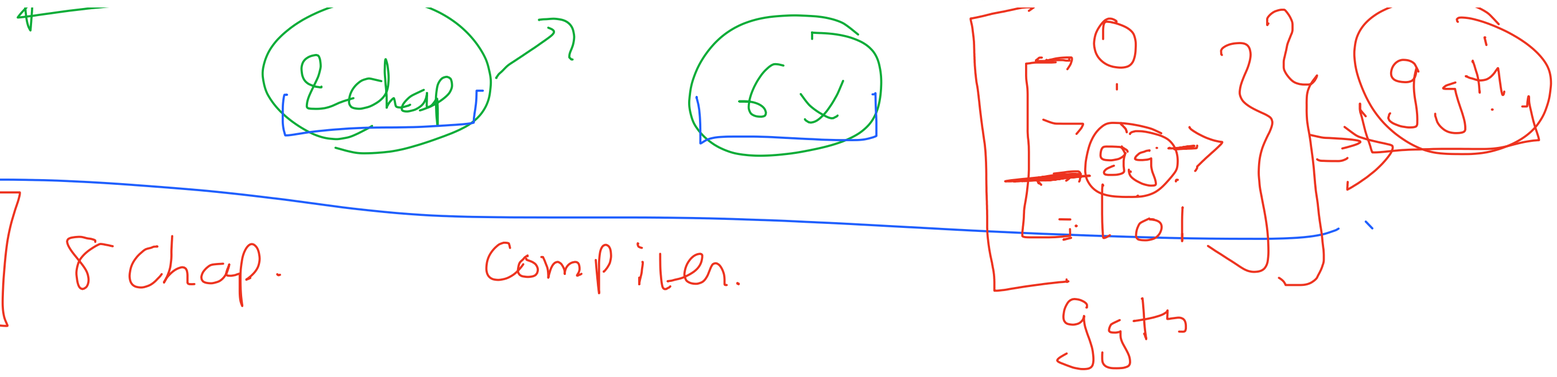


→ take i/p as any lang & convert it to binary lang.

⑤ Interpretor :-



Russian & chapters → Hindi


8 chap.
Compiler.
gg
gg th
Scripted lang
Js
Interpreted
Compiled
0-10 convert binary
5th line
Error
left
8 Chapter
2 hindi
6 =>
Interpreter.
0-4
5th line
JavaScript:-
Netscape:-
Intract with browsers
ECMAScript:-
Java
JavaScript
Nodija
Nodejs
Jio, Airtel, VI
Jatin
Jio Jatin
Jio