Software testing

→ Java (platform independence)

→ byte code

JVM
OS
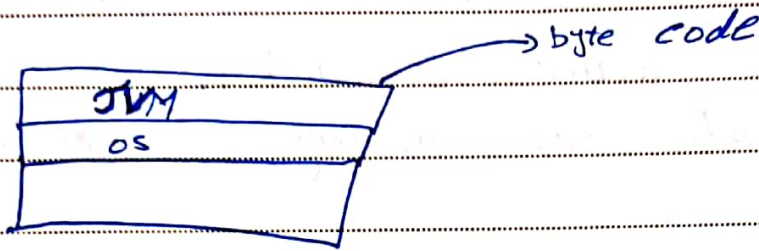
variable

operator

{ Inheritance:- we do inheritance
to reuse functionality.

statment

condition

loop

→ Polymorphism:-

shape   S = new Rect ();
            S.draw ();
        S = new Circle ();
        S.draw ();

if else   ko kaam ker saktay na   polymorphism sy
coupling ko kaam ker   "   "   interfaces sy.

{ 4 package
        bLL
        dal
    PL
to perso → class (person)
if you modifie the string then use

int cnic
sting name
int fatherCnic
int motheD Cnic

[Alt+shift+S]
Getter setter publi

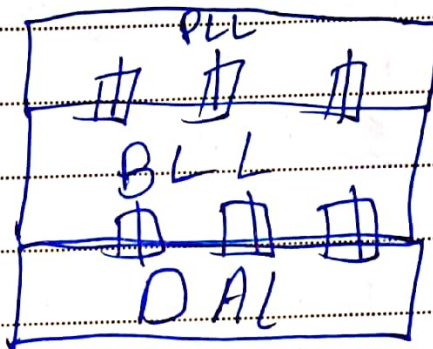Testible ko easy kerta ha
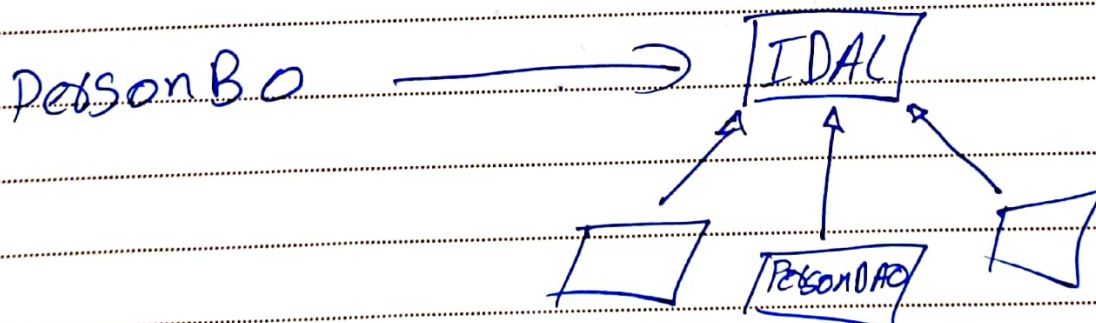⇑

⇒ Stack?

→ dependency injection:-
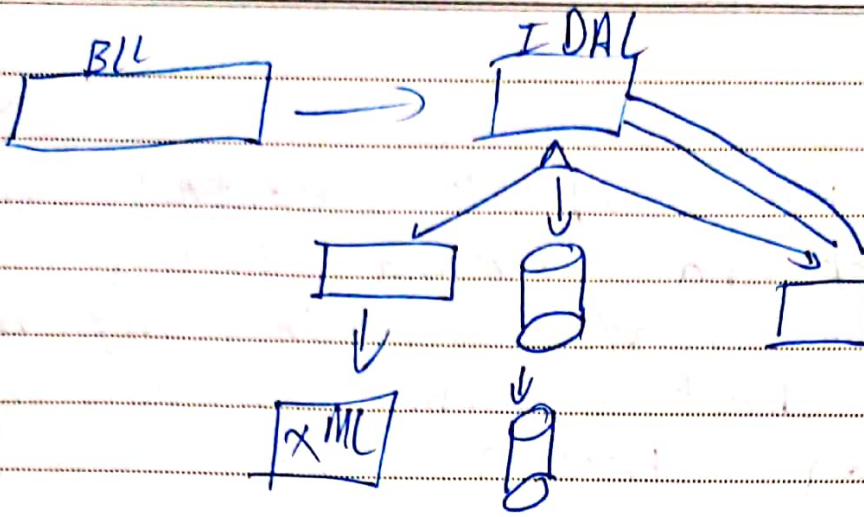
↦ new nahi banani
→ inject kero bahir sy

Add Interface

PLL
BLL
DAL

→ dependency inversion Principal:-
Now that will use interface and
not on concrete object.

PersonBo ⟶ IDAL

PersonDAO

⇒ Interface define kerna ha
⇒ reference concrete na ho.

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PL
BO
DAO — Stub

3 } Main men glue keta
2 } Main in combine
1 } Keota ha
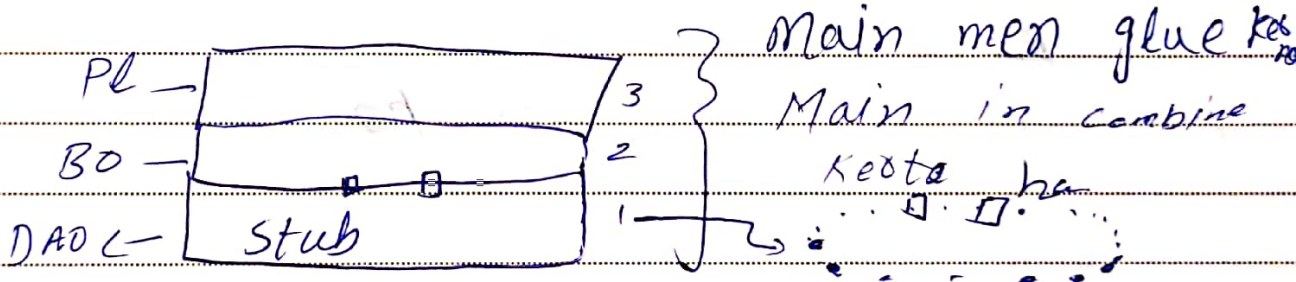
we use stub instead of actual
implementation

[BO ko test kerna.
  wassay banana nahi chaheay stub ki class dal
  mein knu ky yeah testing ky lya ha.

table banay gy knu ky wo
  dB ki tashu act kerta ha.

stub:

→ BL ko check kestay waqa
Dal ko check na kerna paray.

→ Regression test mein app bar
bas DB ko check nahi kextay.

→ Alag Alag testing ho rahi ho.

→ hamara maqsad ha BL ko test kerna na ky DAO ko

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■ Iss tesha ka nash chaheay Jo
target nash sy kaam ho.

⇒ what is Hash

i) symmetric key (1 hi key use hoti)(dono tasaf)
ii) A// " // " // (2 keys hoti ha Public private)
• Digital signature:-
  i) Authentication
  ii) Non-repudiation
  iii) Integration