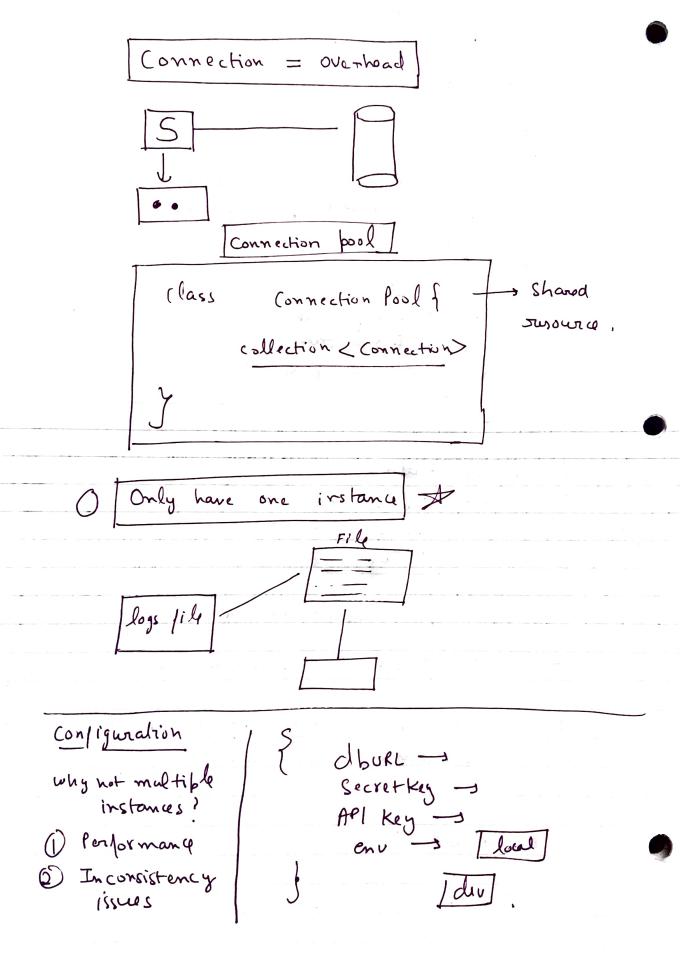
Day 07 Design Pathorns: Sing leton.
1) Dosign paderns.
(2) Single ton
- Lasy loaded - Sync - lagerly loaded - DCL.
(1) OOP — Abstraction. — Enapsulation — Inhoritance — Poly morphism
(2) SOLUD
3) Dorign Pattorns - Solutions to common problems.
Grang of Jours \$
O creational design partorn
-> How at you create immutable objects?
a dependency on concreate classes?
2 Structural 3) Behavioural

DRY -> Dont superat yourself.



singleton DP Tom (a) culator of Spring instances
= Brans
=> Sing leton class Connection Pool Private Connection Pool () { } Public CP get Instance Of if (instance) of return i) Juturn new CPC): O instances. Step 1 - construction hiding (2) Global access point step-2 if (instance created) { return existing return new instance

A if (instance = = null) { this instance = new connection P(); oration instance; -> Step L - Construction hiding. Step 2 - Galobal access point - get Instance () Step 3 - Add local variable Instance, Step 4 - if instance is mull, create & Set to instance else return. Connection Pool ? instrucco; get Instance () { } cold start On demand socition Lazy loading

Eager creation

```
Multi threading
  Ls sync method & performance.
Ls sync block.
Ls bouble checked locking
            i) (ins = = null) {
            3 return
         if (ins = = null) {
               sync () } <
           irs = new cP()
        Juturn instance
-> 11 (i = = null) }
            sync () {
               ij ( i = = null ) {
                    i= new cp();
```

(loning

· clone () —)

(a) overside

clone () !

throw an error