Agurda

- 1) Synchronised keyword
- 11) Semaphores

3) SYNCHROMISED KEYWORD:

Synchronised beginsord neeps us to some synchronisation Pssus.
There are a ways:

- 1) Synchronised without
- ") Synchronised block

barrens besinomized (1)

we put synchronised kymord for the method rame. So that the method is not acceptible by multiple threads at the same time.

public Lynchraighoid adder () }

") Synchronised block

we put a block of code inside "synchronised", to water the code accessible only by a single typed at a time.

public void adder () }

Sepreture classification (Adder day)

Adder add ();

- → Use cose wise both one same,
- -> Synchronised method puts the entire method under week, me count ophimise on lines of code
- -> Profer sync. block with attest 901.7 part of the method requires synchronisection.

ex 3 method A & bynchronised block > Elbanton Synchronised method Class → Classone → Stopet [more data of class]

Degets [instances]

[fyndrowsed (GanName · class)

→ bett falen on entire class Stylet

→ ou methods calls ha any Stylet will be
kynchronbed

clans Count Encounterellocut

bynchronised (Court.clam)

Print() Synchronized (Court.clan)

class Counterfer. Puplements Rumable &

Count c;

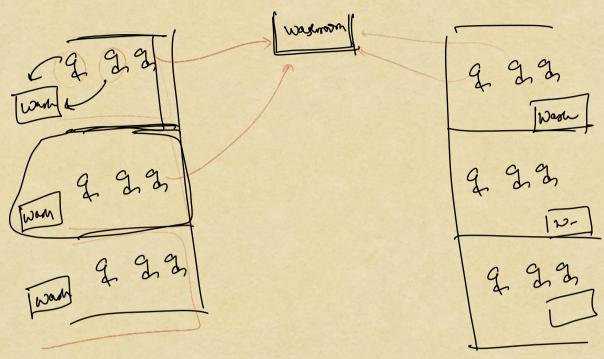
runc) {

(or foresementlout();

}

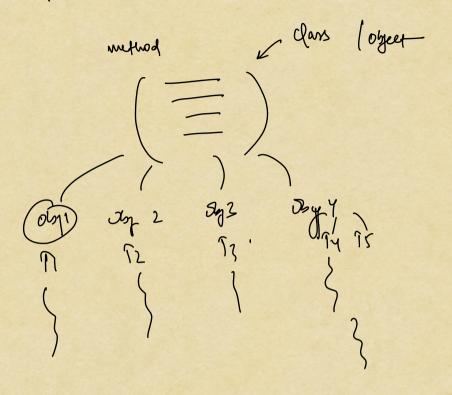
3

t3. Mast t4. Stark() ou 4 will equive sequential



Synchronised (this) }

7



≥ Jamagnoses

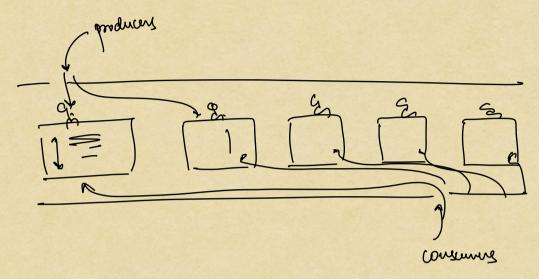
Producer - Consumer problems

(ex 3) Where what 3) H.W

Pailor flore sell the shirts that they have made, the ship has counters, where each failor can sell a shirt

- or each tailor can sell & shirt at a time at a particular counter
- of customer only enters the sup of attent +

=) as fast as possible



-> 100. of producers that can enter the store 2 mo. of empty subs

- No. of consumer that can enter the spor

>> Proplementation :-

Store 3 (stephent) Store; 14 8izeques = 5;

Producer

Consumer

if store size() < size of store) {

store semare()!

store semare()!

There are 1000s of parally runing products & consumers. PI if store size() < size of store) if store is 70) Is store add (swirt) 2 3 Solution 1) Mutex | Synchronised: At a time only I typead would be allowed to add a short | semane a shirt

H.w find scenario

