- & Run and Start method
- 4 Cooling examples
- 4 Executors
- of Cooling examples
- + causeles
- * Coding anamples

- Run and stort:

Fun() -> wads the task that we want to do

in a different thread, but it runs on current
thread.

Starte) -> creates the thread, and call the runc)
method on the new thread.

wasn

thread

thread

thread

thread

thread bas

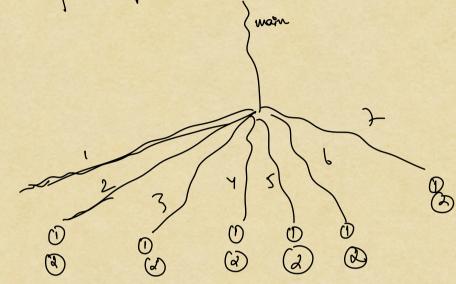
been

mated

inated

- -> A CPV executes a process => NO = executes a thread
- -> Au processes have throad of yes
- -> A terroad is slow content switching >> No.
- -> A threed Occupies more memory than proces ? No

1) print name

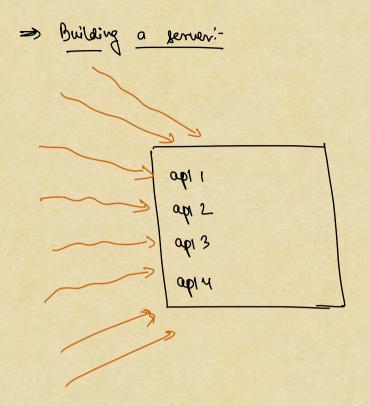


- * Mulk-Knreding in general is undeterministic
- * Delougging Ps very difficult

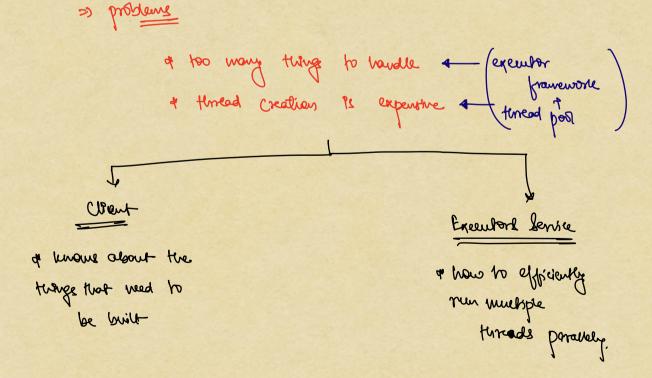
3) Went

- 4 Create a task
- or Create the thread
 - 4 Decide when the thread usu run

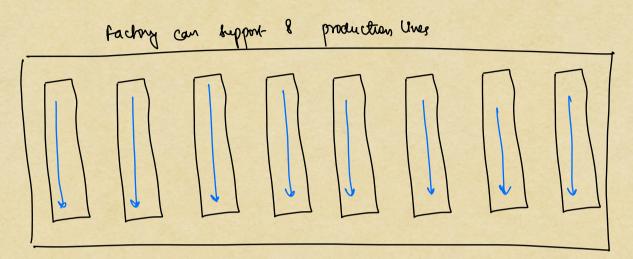
t. slave()



for every request, we create a new thread.



Car factory -> 2000 can



destroyed, and we need to recreak the production line to creak a new car.

-> No efficient

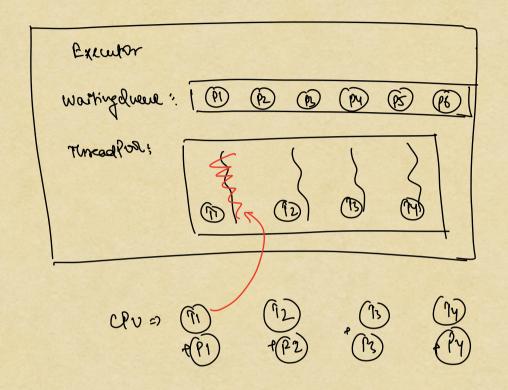
" we need to somehow, recele the production trues.

Switchy, threads should not be destroyed, and should be rewed.

mainfaired by Executor Lensee

to maintaine a thread Poss

thread Pool: Whetian of threads that can be used to exceed toshe paraelely



-> Here we are rewring the threade, and not recreating them.

 - Rumabole

Callabre toy

concernently (as in multi-terreaded), we want to bandle to return something we use callable (calls

-> SOP for using Callable interface!

=> You are given 2 arrays. found the sum of all dements
of book arrays

ex on [1 2 3 4] [5 6 7 6]

36

St. Identify the task that you want to run in a parallel kneed.

→ task class name should be a nown

dering a vento
ex or Arreny Adden

Sa. Choose the return type for each take $1 \longrightarrow 8$ wheger

S3. Implement the callable Interface with schon type

Class ArroyAdder Purplement Callable (Intoger)

Sy, while the took logic in call method.

adder
$$2$$
 = 2 =

future (Integer) fx = odd: execute();

future (Integer) fy = odd2. eqecut();

int leaset = fx.ger() 4 fy.ger();

1) can the execute.

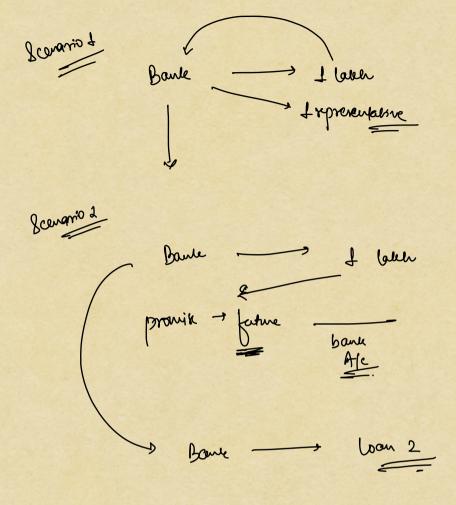
in) initialise fX variable

fx

wain $fx, gett 1; \rightarrow 10$

burners
bakenelys -> 11 wan -> bank

- wait until execution



In Callable we return a fature, which cultimately hads the achiel result, once the thread execution Ps completed.