Agenda :
1) Executor framework
11) Callables

Thread + = New Thread (Bby);

t. start(); J

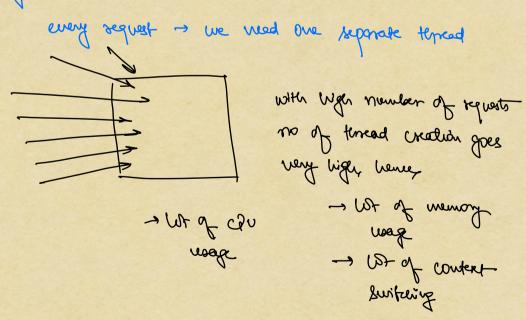
spanne a new tyread

and cause the run method on

it

" once the rand) method completes excellion,
thread is dead, thread object will get cleaned,
and thread is not schoolse

a Building a benner:-



when we write a multi-threaded appr, there are a things, we will be do:-

[burners wasis]

threads independently

* cocation of tenseads and runing the threads

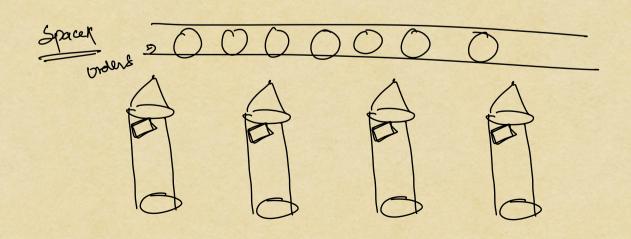
for two or yes

bespons

- 1) Multiple new thread creations is not an optimised way
- ") Dev. should not worry about typead creation & typead start.

Blukon

& Executor framework or, Executor Service



- a kil now, we were creating a new tyread for each take,
 - 4 now, by wring Execulor framework, we will truse the threads

-> Executor framework maintains a Thread POOL

- a each thread after completion of its task, due the get dushroyed but is kept in thread pol for further reuse
- -> Executor framework maintains a waiting queue
 - of all the toyles that needs a typead, wait in queue until a thread becomes available
- -> Executor framework lets a no. of threads for thread pol.
 - (EF) Executor Frameworks

- mainteins

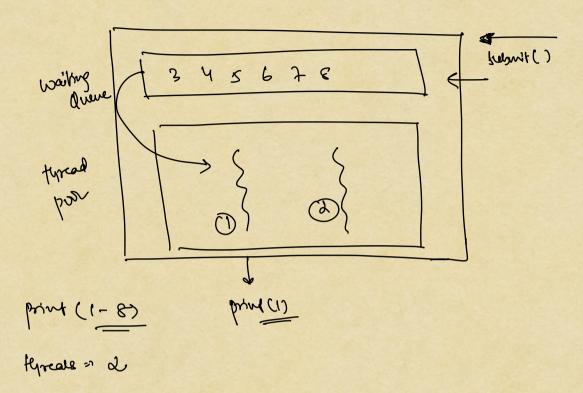
+ Thread Pool [worker]

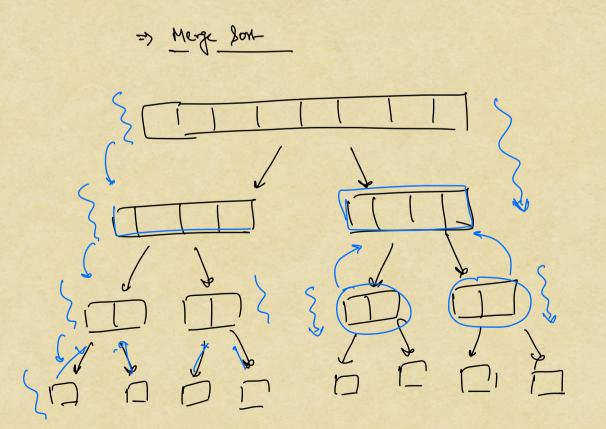
+ workelieur for take

- [workelieur]

- -> we submit of numbble take to executor.
- -> Ef creates the thread

-) fit assigns a task to a typead.





>> Since, Rumable run() does nt allow us to setyme anything, we use Callable → call() to write mulk-threaded which can setum data.

Question

-> Creverate & Fandom numbers and add them, each random number should be generated by a difference.

wain to the year

Byo! Identify the task that you want to do parellely
generate a random number

skeyd Create classes for all the tasks that has been identified class Random Numberheuerafor

& name of the class should be a noun doing a verb.

Begg Make the Mans Purplement Callable Puterface

Callable Surface

Callable Surface

" Canadre Puterface has a method canad Can (); this method hads the code for the task that we want to do, and returns the data.

Stepy ?

Suplement the call method

clan Random Numberhenera for Purplements Callable (Integer) }

public Integer Cou () }

=> Pask defination from Step + to y

=> Sulamit the task to Executor framework

Future (INT)

int x = (executor submit (generator));

FUTURE (INTERER) &

int & = Executor Submit (generator).

