- a Implementation of multi-typeoded code
- \* Executors
- 4 Combacus
- & Syndrowization (Putro)

## => Multi- threaded code:-

**→** 

dividing the tooks into multiple typicade

- => what task I want to achieve in parallel ejecution+
  - · point "tulloword"
- Step 1 -> Create a class for the took

  Class Helioworld Printer &

Step 2 - Implement 'Runnalde' Puterface

Clars techoworld Printer Purplements Runnaldle S

void runc) S

3

Step3 - Wrik Copic Publice run() method

clars technooddfrinter Purplements Runnaldle {

void run() {

sout-("Hello World");

3

Step 1.2,3 -> setup

Step4 - At excention code. Create a thread object

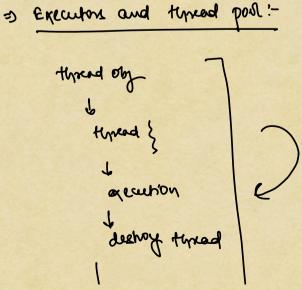
Helloworld frinker hup = new Kelloworld frinker();

Thread + = new thread (hup );

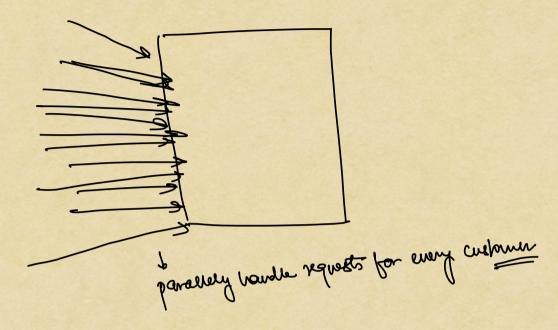
Steps -> Read thread to slanter;

```
public class Main {
    public static void main(String[] args) {
      HelloWorldPrinter hwp = new HelloWorldPrinter();
      Thread t = new Thread(hwp); 

object
        t.start();
        ≶ystem.out.println("Hello World from thread : "
                + Thread.currentThread().getName());
}
                  Heurs Stort ()
                                     · execute the rem()
                   1 Crak a ww
                                      method on top the
                      threads
                         and,
                    · calls run()
                     on top of that
                     new typeod
```



destroy dopce

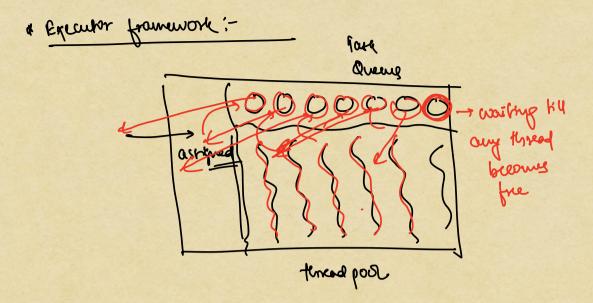


- + every time any request comes, we arrigh a thread
- seems the typical

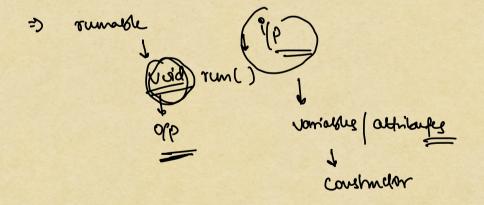
Spaces => xusable rocker

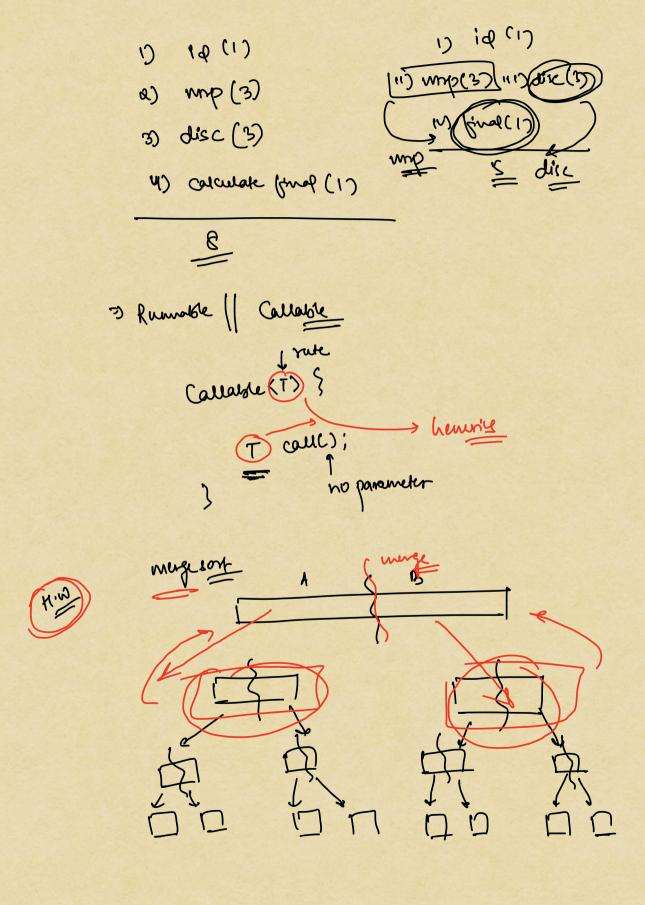
Pamers = depting a ra-of

(fcfs) (fcfs)



- \* scurable threads
- 4 Optimisation by removing the overhead of creation 2 destruction of threads





```
public class Main {
    public static void main(String[] args) {
        /*...*/
    → MRPCalculator mrpCalculator = new MRPCalculator(id: 10);
     → DiscountCalculator discountCalculator = new DiscountCalculator(id: 10);
     ExecutorService executor = Executors.newFixedThreadPool(nThreads: 2);
Integer mrp = executor submit(mrpCalculator);
        Double discount = executor.submit(discountCalculator);
        double finalPrice = mrp - (mrp * discount/100);
        System.out.println("Final price : " + finalPrice);
    }
}
                                    execute the call) surplate.
                    Put n = square (4)
```

