(1) (racking threads:

Method 1: Implementing Runnelle
Method 2: Extending Thread.

* Both would require you to
excercibe the ren () method k
call thread start() to start the
actual execution.

- letting thread privately will not men that a higher privately thread gets scheduled first. It depends on the undulying platform.

(2) Types of threals:

- Vou threads: thigh priority. IVM

boits for them to complete their task

before terminating a program.

- Daemon threads: low priority & mostly

responsible for providing review to new

threads. They won't prevent program

from entity when all uses threads

have completed. Should not be used

for I/o tasks. Can be used for garlage

collection, cleaning cache entities etc.

thread. Aut Daemon (true).

(3) Enemtor Service to mente thread pool:

* Enemter Service executor =

Executors. ressingle Theed
Executors)

* Enemtor Service executor =

Greators rem Fined Thread Pools

pass #threads

enemtor execute (new Classes).

* Eneuter Service eneutor =

Executors. Schedule At Fined Rate (

* Enemtor Service enerator =

her Scheduled Thread Pool (#threads

enemtor. & chedule Atfined Rate (

obj , delay , period)

or task.

enewter. shutdown ().

Scanned with CamScanner

5) Synchronized (method): - Voing synchronized in func declustion will make operations within it thread gullic syndronize boolen dec () ?... } (6) Synchronized (Object): # Cynchronized (this) holds hoch within a block of code so can block for less time than when added to the method. public boolear dec () } syncheonixe (this) { } lock for only ___ this block. * Syncheonized (86j);

private final lock Object = New objects). public boolear dec () } synchronized (behøbjeet) {
-- runler;

» lockblejeet om be med by subclasses as mell.

(7) Reinternet Loch(). (2) - Similar to eynchronized. beentereht boch : New Keenterouthocks) lock. lock() lock. nalock().

(8) Reenteral Read Westerweb: - readhocker) -> will allow others to read when acquired but greats - whitehoch () - will prevently all sead write when acquired.

(9) Atomic operations: Lords en jura primitives: Long, Booker. Integer etc. vous auchin instanction like compare le swag Atomic Integer courter: un Atomic Integer (10) courter. get () / set () / compare And Set (). -voletile: einster to helping operations atomic + make sure updated value is visible to all - cu be used with only one variable.

Java thread dafe deta structures.

- Linked Blocking Queue., Personity Blocking Queue.

- Consument HishMap; Set 2 Integer set: new Comment HishMap, nerkey Set ().
- Consument hinked Quene
- Collections. Myrcheonizedhist (new Amyhister (1);
- bollections. synchronized May ()
- Collections. synchronized Souted Map () Thee Map.
- bollections. synchronizal Set ()

to describe

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