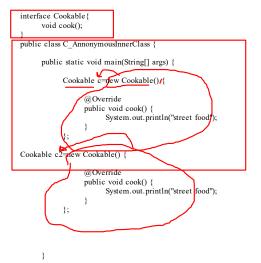
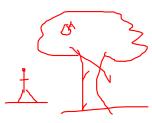
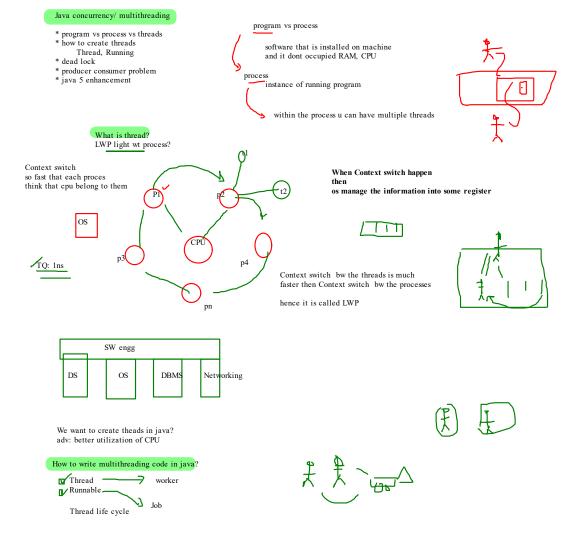
## Basics of java collection api readymade ds:" java collection" aka readymade ds in java how to use them? performance consideration? Collection List: allow duplicate LinkList Vector Amayl.ist $O(n!) O(c^n)$ O(n<sup>c</sup>) $O(n!),O(c^n),O(n^c)$ -Worst ArrayList PriorityQueue **Running Time** O(nlogn) - Bad Complexity O(n)-Fair in terms of O(nlogn) Big-O O(logn)-Good HashSet: interanlly use hashing\* hashing make searching optimal operation Big O Notation: O(1) O(f(n)) O(1) - Best neighter sorted nor ordered Input Size n LinkedHashSet it maintain the inerstion order TreeSet put the data into to sorted order Hashing: HashMap LinkedHashMap TreeMap Map is a special collection K, V U marks of student all name marks almost any any. used with java data structure it was added in java 5 (2004) below crow day a all Why hashing and what is that mathmatical way to arrange data so that retival performance must be best O(1) Lee Jeans with 36 w java Object: equals: if 2 objects are eq they should be from the same bucket hashing is a process to divide data into the buckets DTO hashcode: if two objects have same hashcode they may be same or not ntroller dao: data access object DTO: data transfer object validation tx security

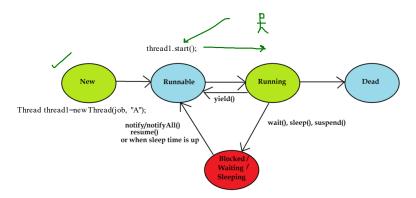
caching



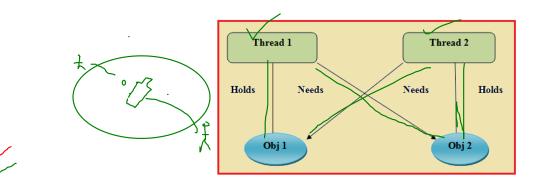


hey java cookable is interface take it and implement it into a class i dont care about the name of that class just give me sigle object of that class





Thread Lifecycle using Thread states



Object r1 = "bat"; Object r2 = "ball";

