Java Memory Model.

The Stack

The Heap.

Every shread has its own stack

Data that has a longer lifetime than a lingle code block. For eg. Objects that need to be shared access multiple methods.

- An other languages you must state when an object no longe needed by calling a method like feele?)

 Objects that acce not feeled continue to consume memory.

 This is called memory leak

 Overtime more and more memory of comportere it is ecunic on will get used up, eventually leading to system crash.
- -> Java avoids memory leaks by.
 - Running on viutual machine. men key word does not allocate memory seron DS. The memory is acquired by viertual machine . VM controls allocation are fereing of object on its own
 - · Adopts a Gaubage collection securegy. Here when a heroserammer asks for objects to be allocated on head

do not reed to fece them later. It is deleted by automate few gram by JVM.

Any object on heap which cannot be exceed theory a experience from stack is eligible for "queloge collection"

-> gc fublic static void gcc)

Kuns gaerbage collector

Calling gc method suggests that the JVM spend effort toward

Meyeling unused objects to make the memory they unevently

Occupy ovailable for quick heuse. When conterol hetneus

from methodcall, JVM has made a best effort to heelbir space

ferom all discarded objects.

System.gc ()

Funtime gethentime (1.gc)

Runtime nuntime = Runtime get Runtime(); long available memory = luntime. fece Memory(); OR Syout (lundime.fuememory());

Just a suggestion to lun garbage collector, but it's not a guarant

It is not elecommended to eur go command. Only tell gaussage collectou to eur :
- To evaluate whether to different but alternative lodes are more less efficient thaneach other.

There is no granantee that go will eur gaussage collector for sure. Till the gaussage collector eurs application will be suspended and will starts once it is done.

After garbage rollection removes object from heap, it lune finalize () method

putteted void finalize () therows Therowable

-> Soft heaks are objects being referenced on the stack even though it will never be used again.

Mustithereaded perogram often produce revious when multiple