

Young Generation:

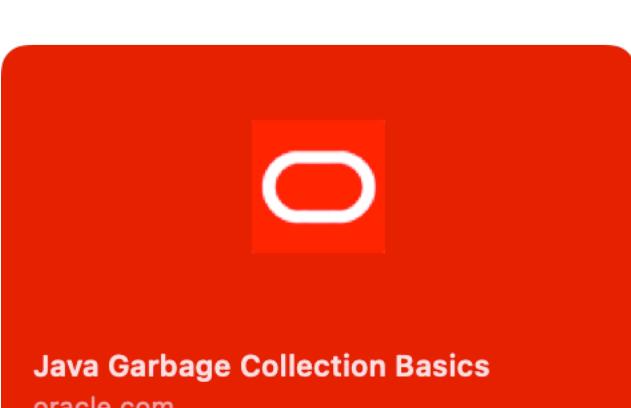
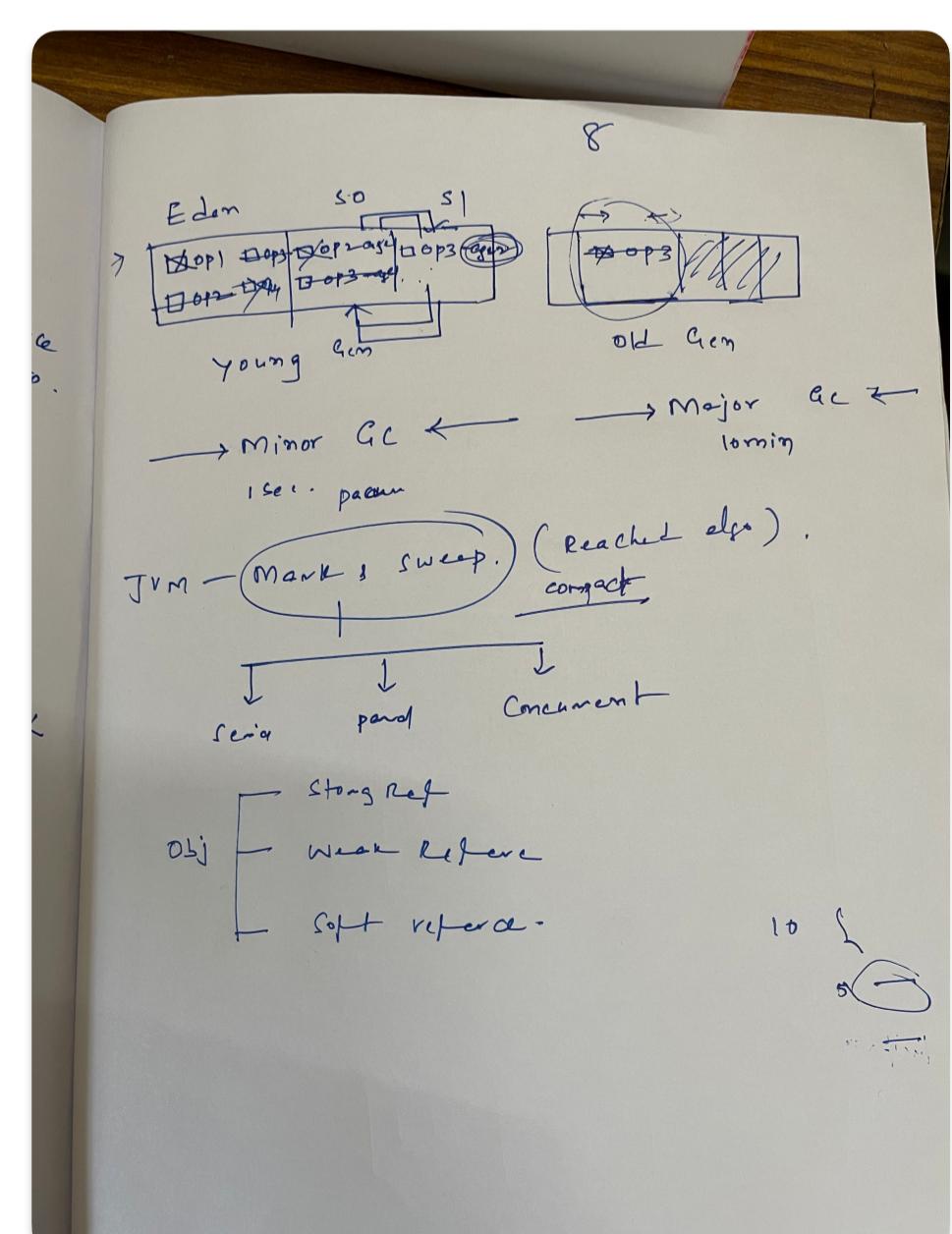
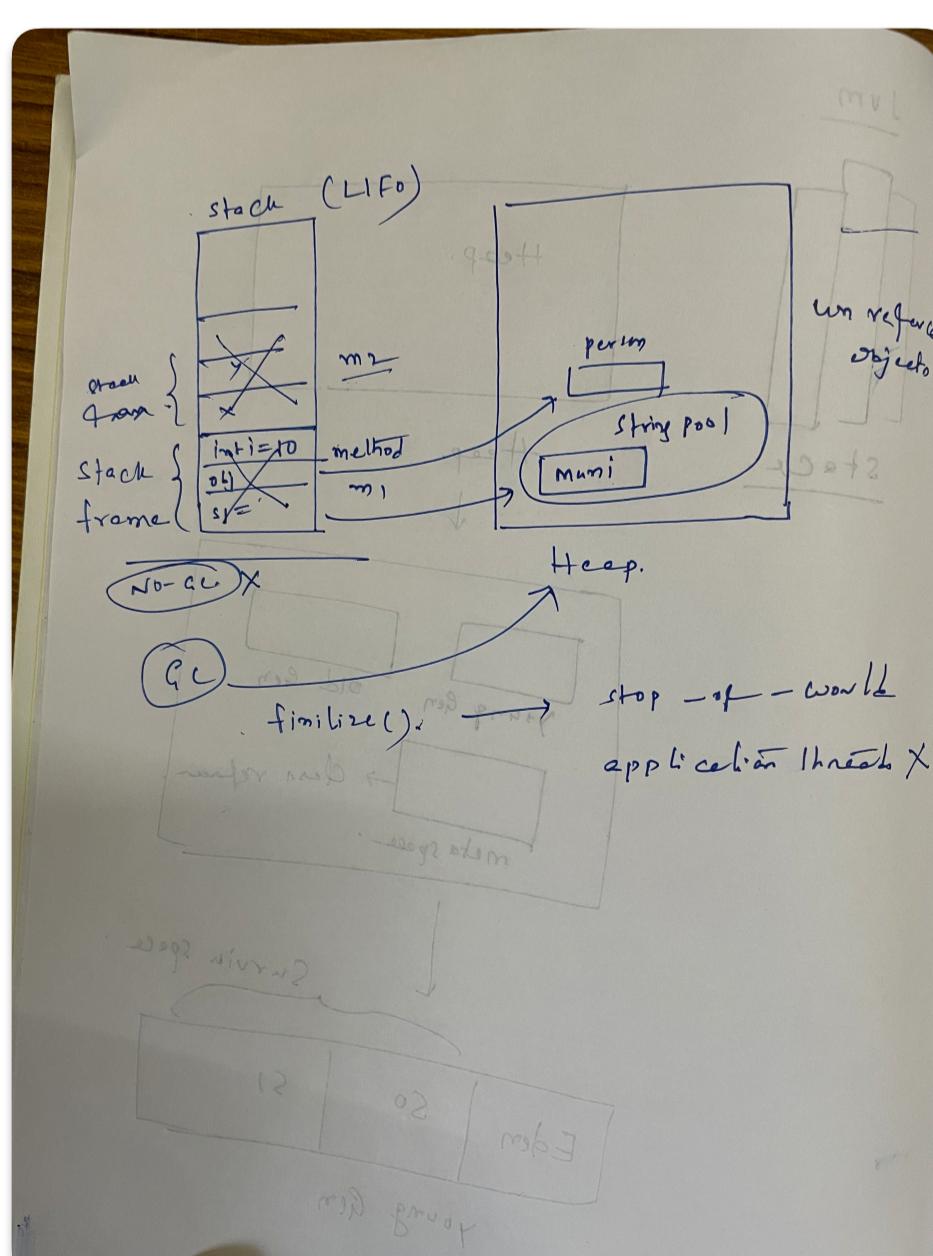
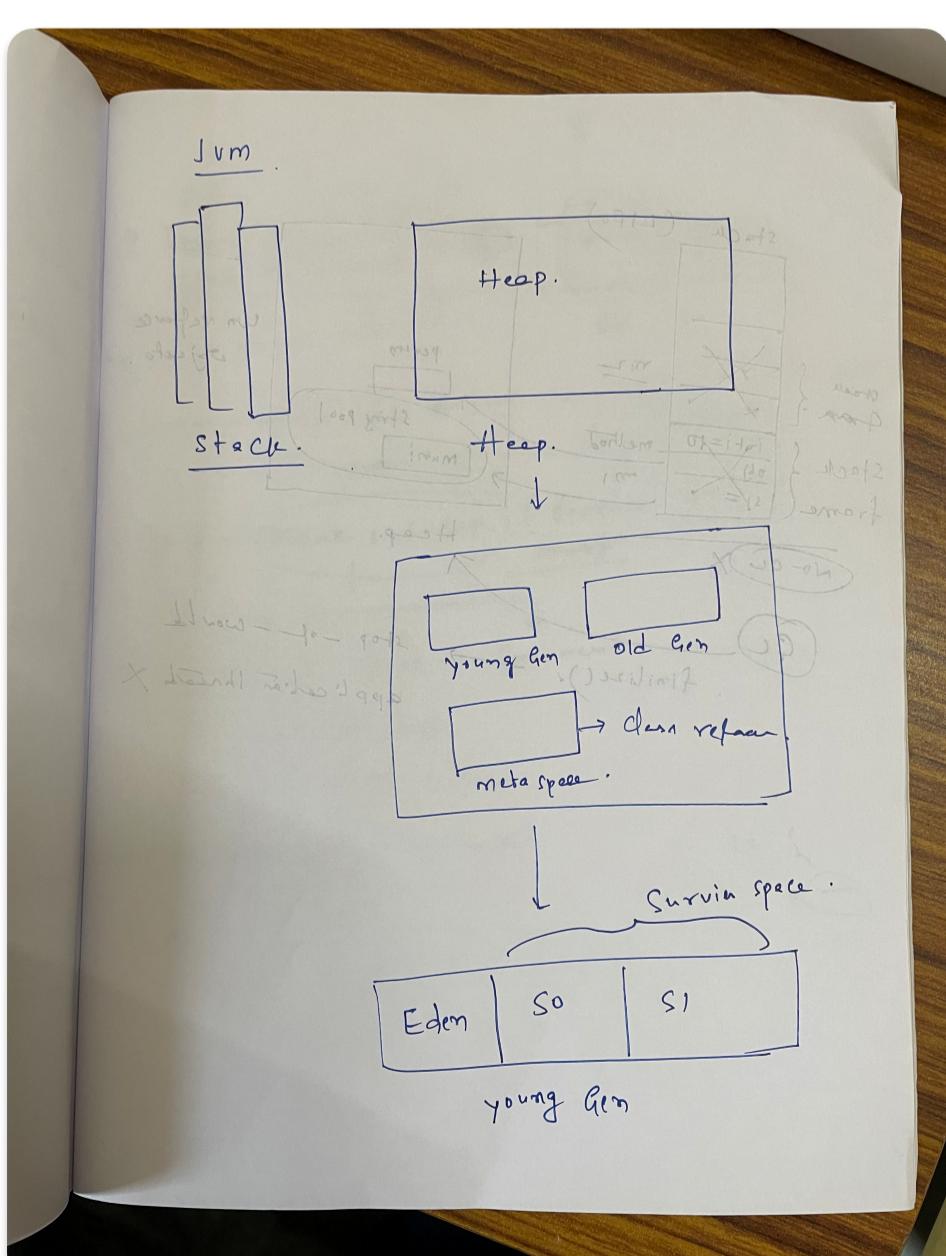
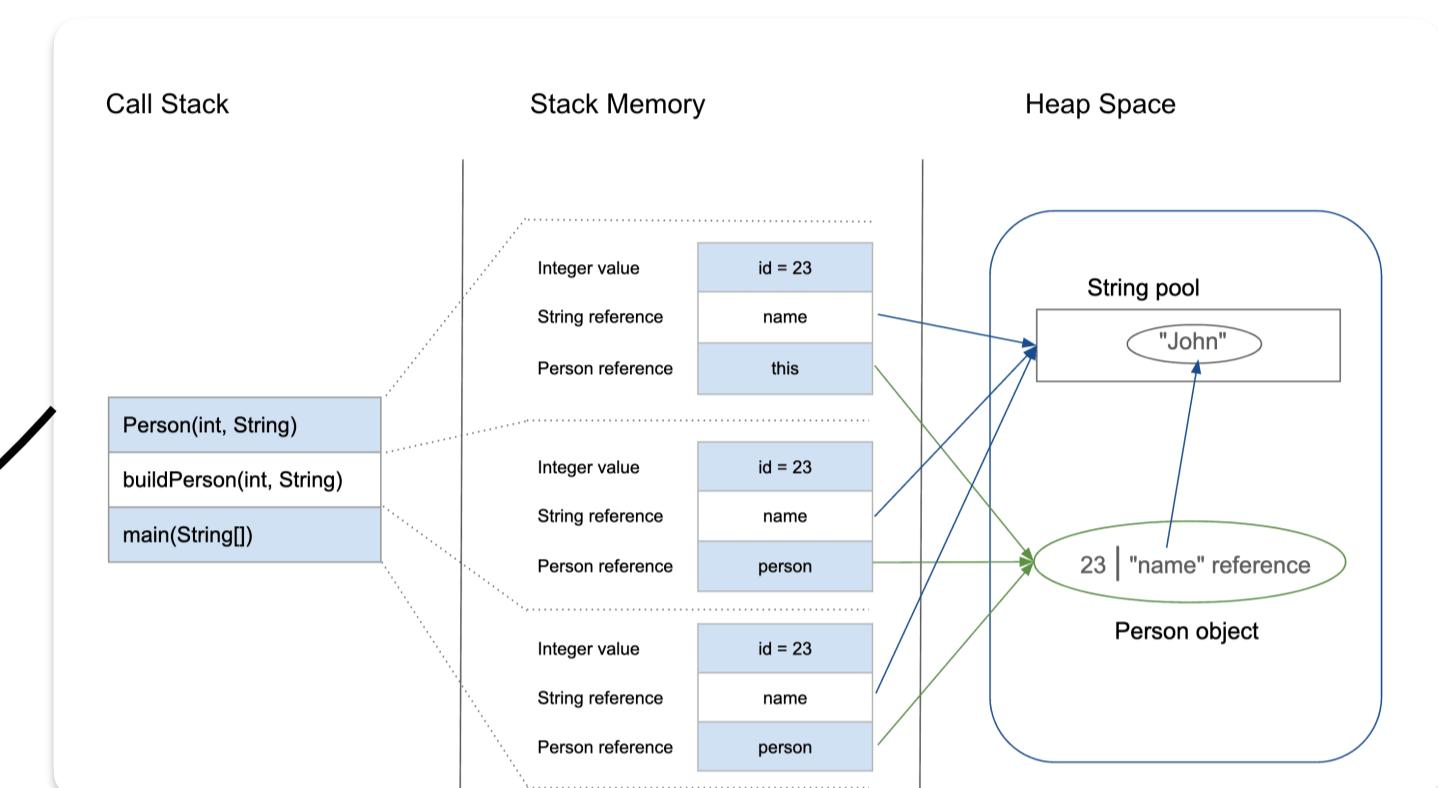
All new objects are allocated in the young generation memory. When this memory is filled, garbage collection is initiated. Garbage collection of such kind is called minor garbage collection.

Old Generation:

After surviving multiple minor garbage collection rounds, old-generation memory is where long-lived objects are stored. Whenever this memory gets filled, garbage collection is done. Such a garbage collection is called Major Garbage Collection.

Metaspace:

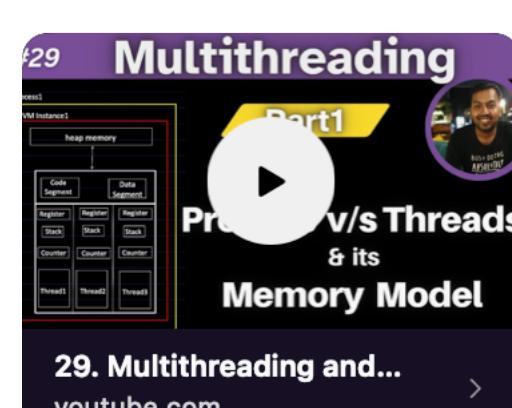
Metaspace is a new space to store class metadata. It is not contiguous with the Java heap. Native memory is used to allocate Metaspace. It is the available system memory providing the maximum space to the Metaspace. The maximum space is, however, limited by the MaxMetaspaceSize JVM option.



Java Garbage Collection Basics
oracle.com



Memory Management in Java...
medium.com



29. Multithreading and...
youtube.com