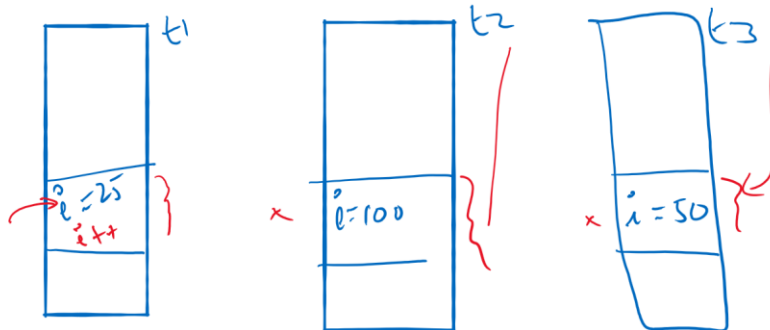


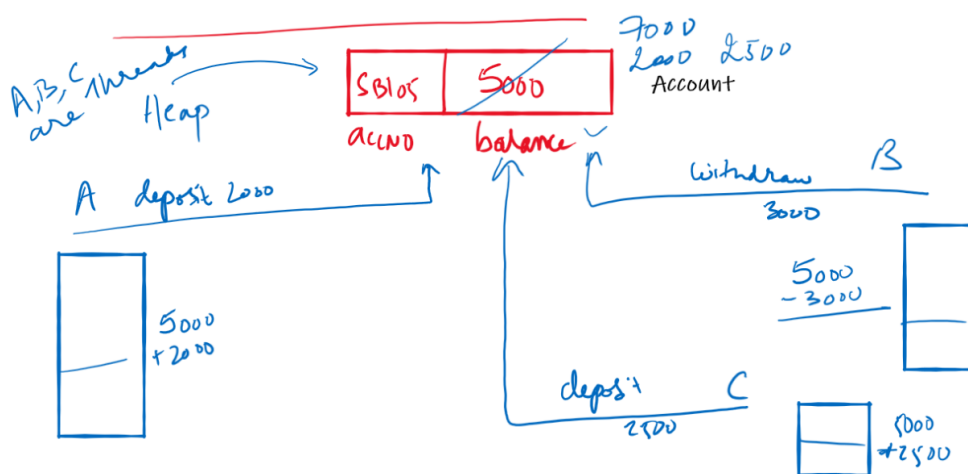
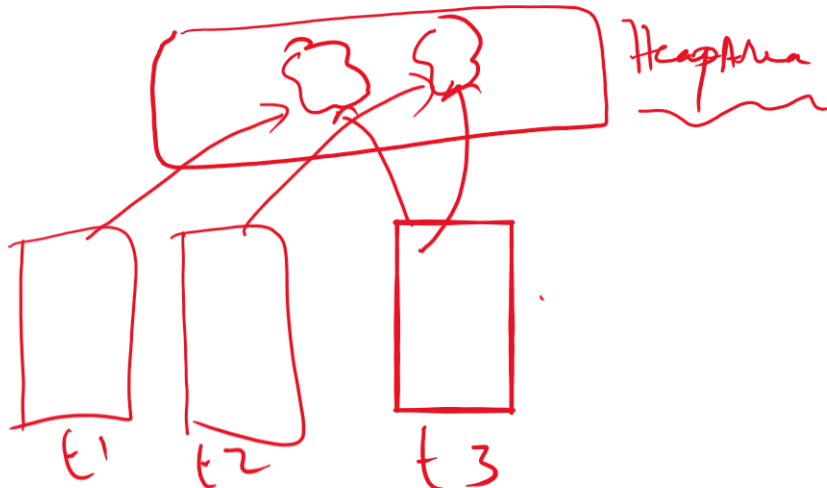
Thread Safe members:

Local variables are thread-safe, instance variables are not thread-safe:

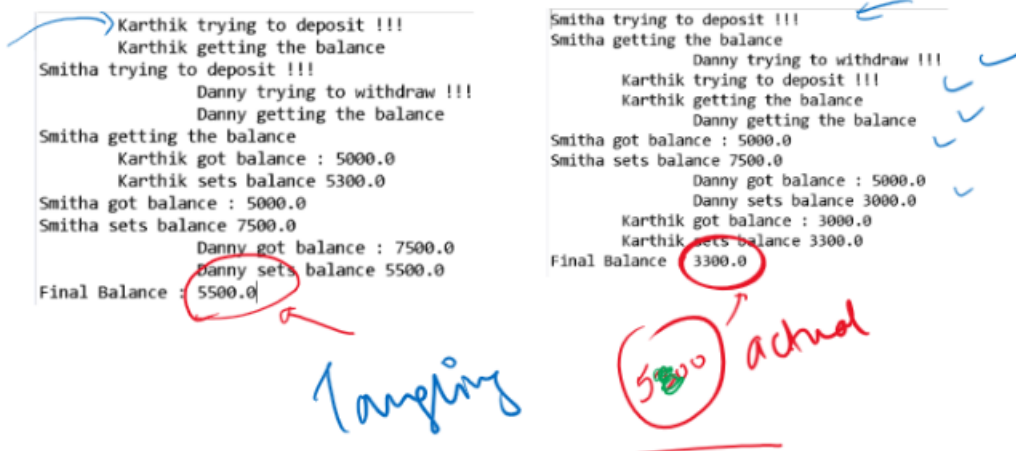
local variables reside on stack and are thread safe



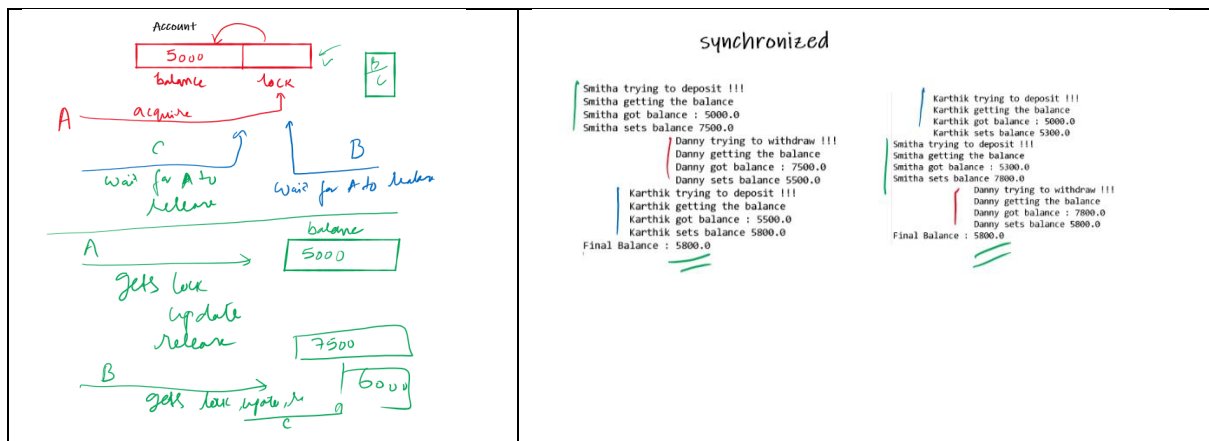
instance variables ==> not thread safe



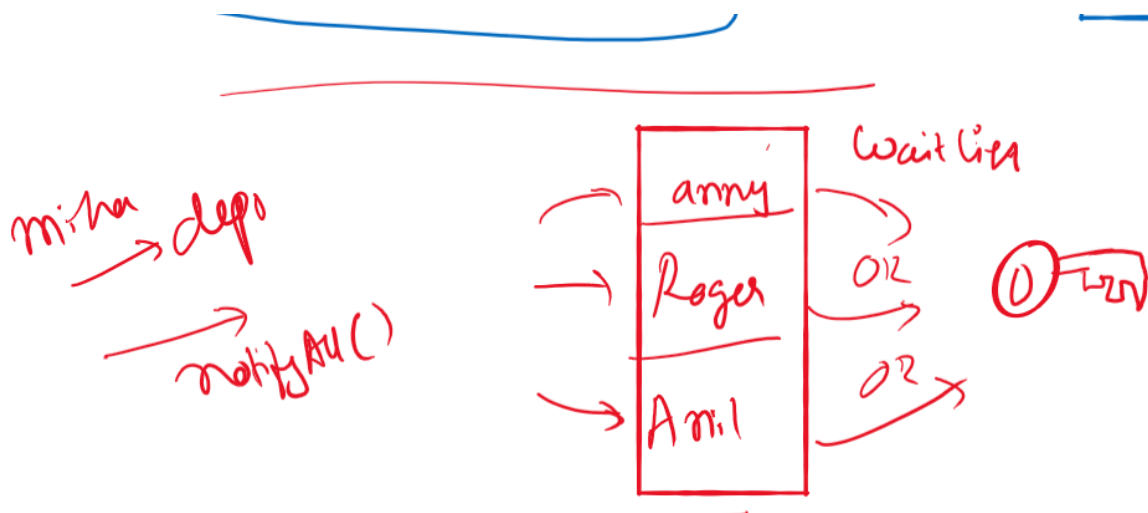
Data corruption in multi-threaded environment:



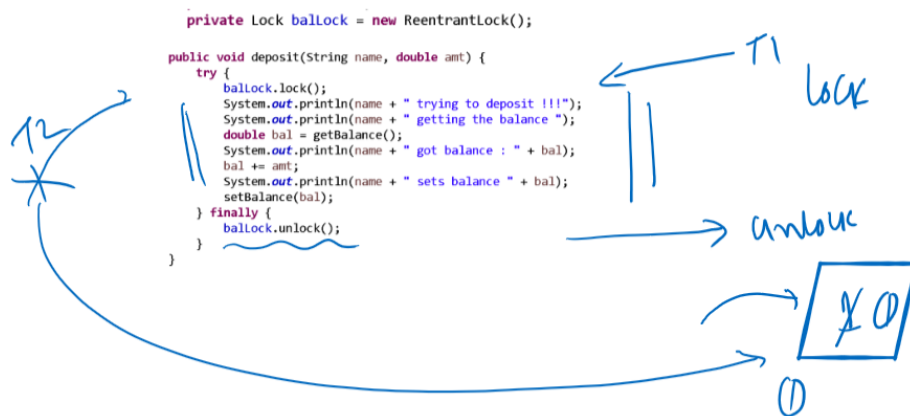
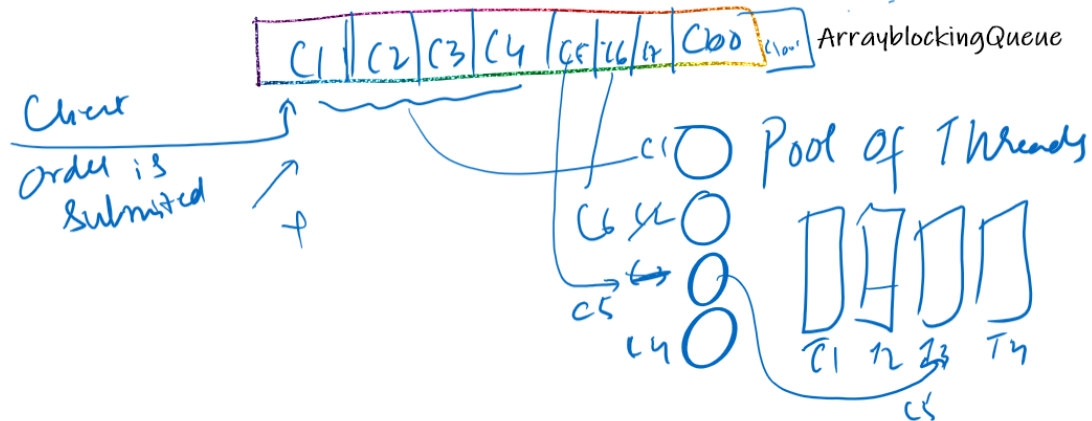
Synchronized and Monitor/Mutex/Lock:



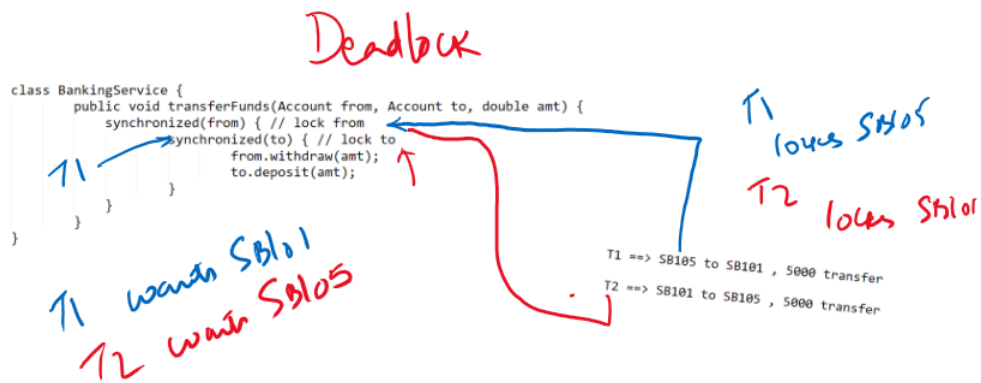
Wait and notify:



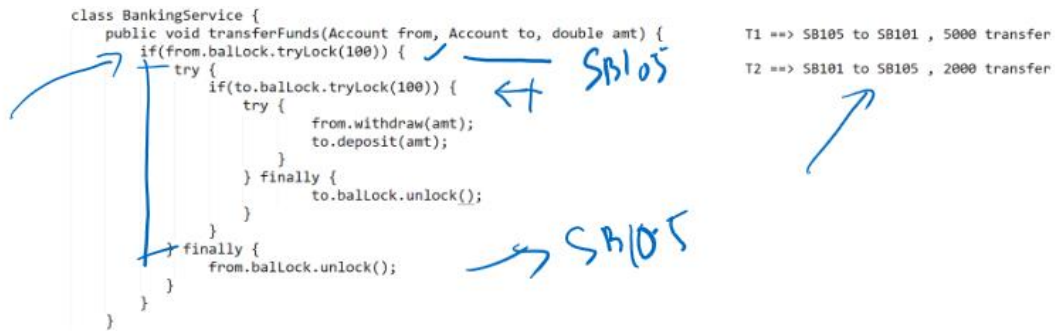
Lock API and ThreadPool:



Deadlock

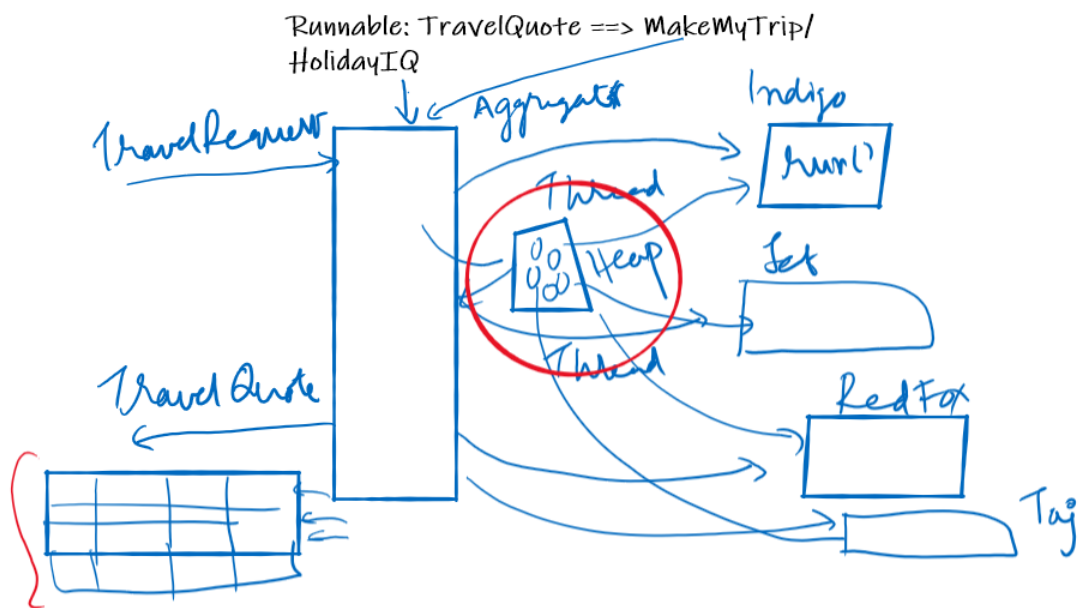


Lock API -> avoid deadlock



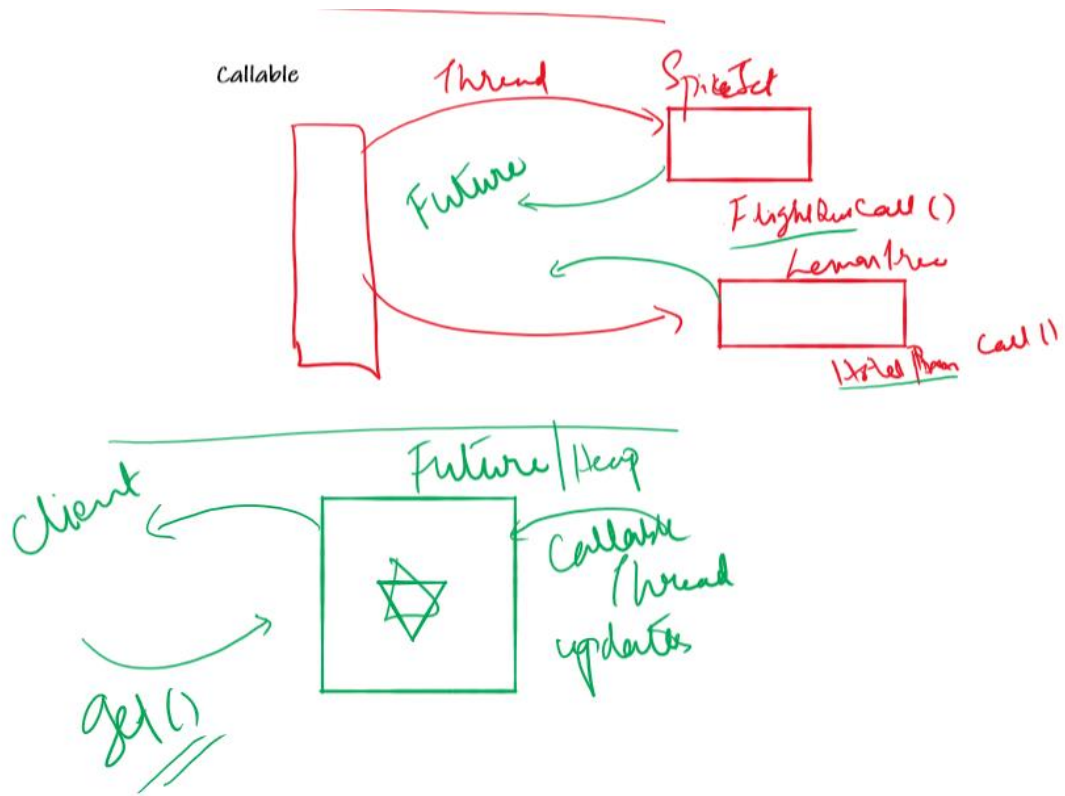
T1:
if t1 gets SB105 lock
try to get SB101

Without Callable and Future:

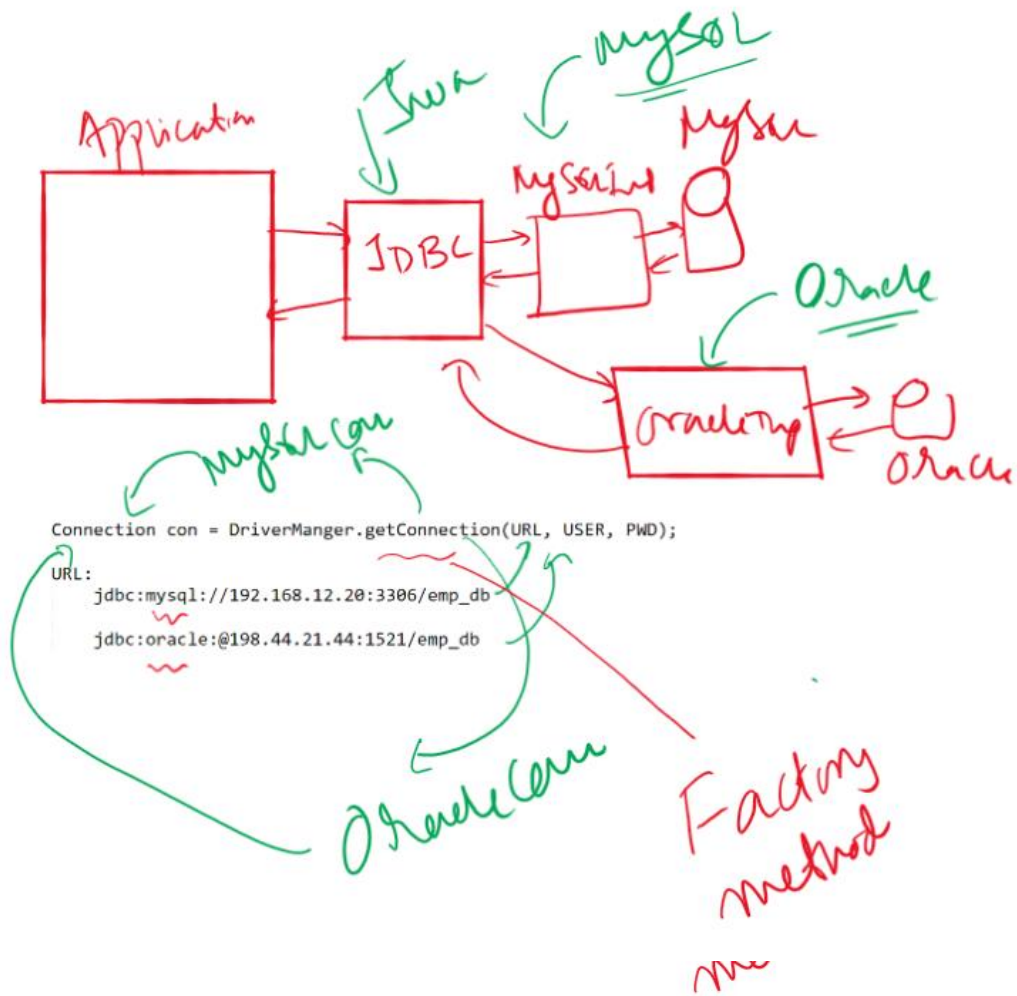


Issues with Runnable:

- > Shared heap area has to have locking mechanism
- > flags has to be used to signal Aggregator that job is done
- > maybe Jet server is down



JDBC:



ResultSet

id	name	price
10	A	500
11	B	600

Handwritten notes on the table:

- getInt("id")** (pointing to the id column)
- getString("name")** (pointing to the name column)
- boolean next()** (pointing to the next row)
- P** (pointing to the price column)

Maven:

