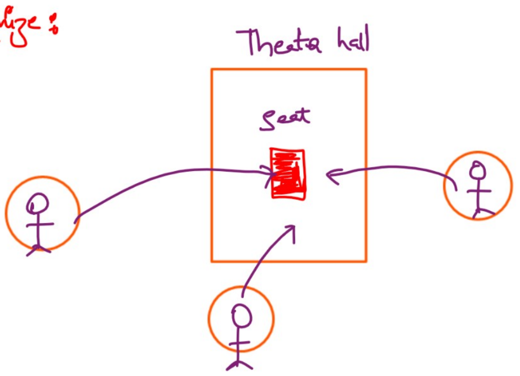
Class Level Thread Synchronize:



Notes:

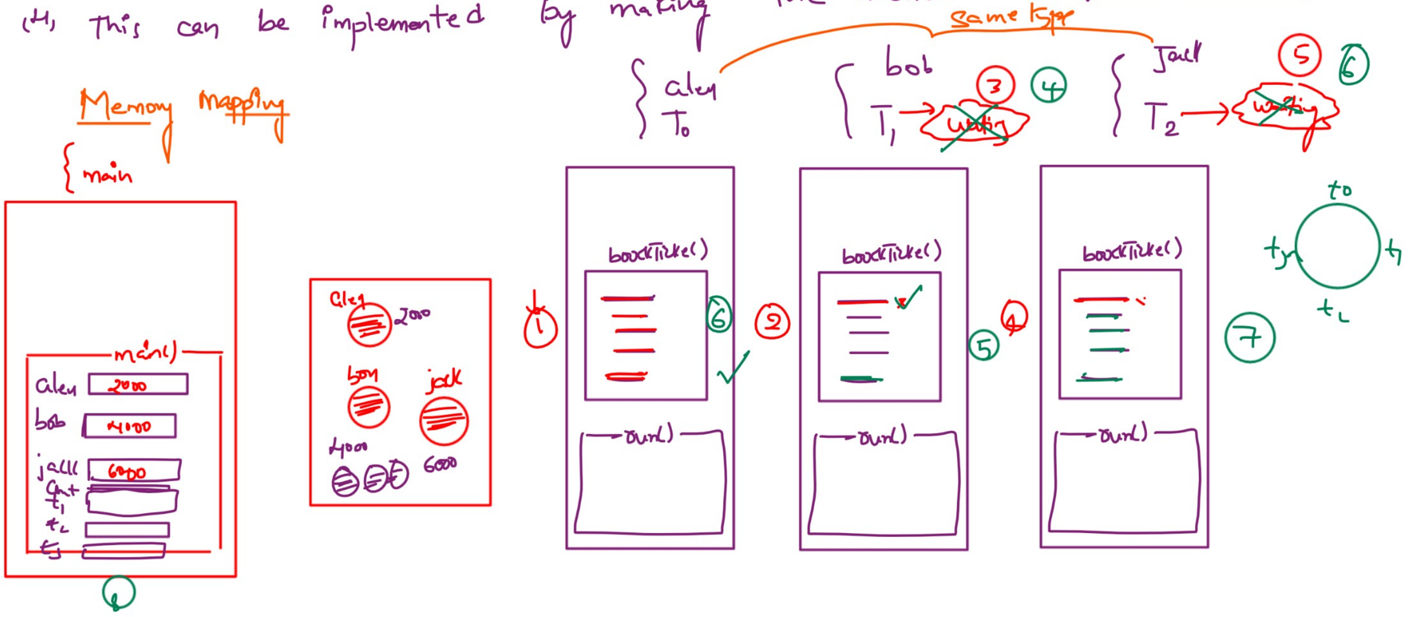
1, In The above case, 3 different users are trying to access The same seat at a time

2, which is not allowed in real world scenario

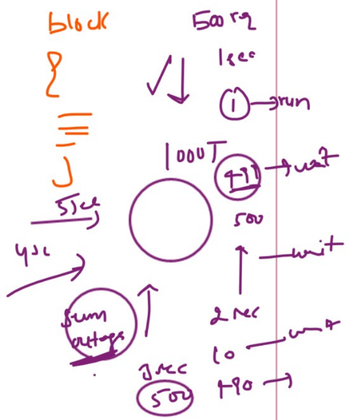
3, To achieve this, when one user tries to book The seat, other users of the type [class] should get locked

4, This can be implemented by making the method as synchronized static

Memory Mapping



Synchronized block



Notes

→ when we make use of synchronized methods(), The efficiency of program/ application would reduced

→ If one thread is executing the synchronized(), Then other threads who wants the synchronized method() will be in waiting state

→ In case if we don't want the whole method to be synchronized, but only few lines to be synchronized then going for synchronized method would be bad approach

→ The better approach would be go with synchronized block

To achieve object level lock

```
void withdraw() {

    synchronized(this)
    {

    }

}
```

To achieve class level lock

```
void bookTicket () {

    synchronized(className.class)
    {

    }

}
```