Thread Life Cycle:

| T6 | T2 | T5 | T1 | T4 | T3 |

Thread Schedular

New

Runnable

Running

Blocking,
Waiting,
Sleeping

Terminated

CPU
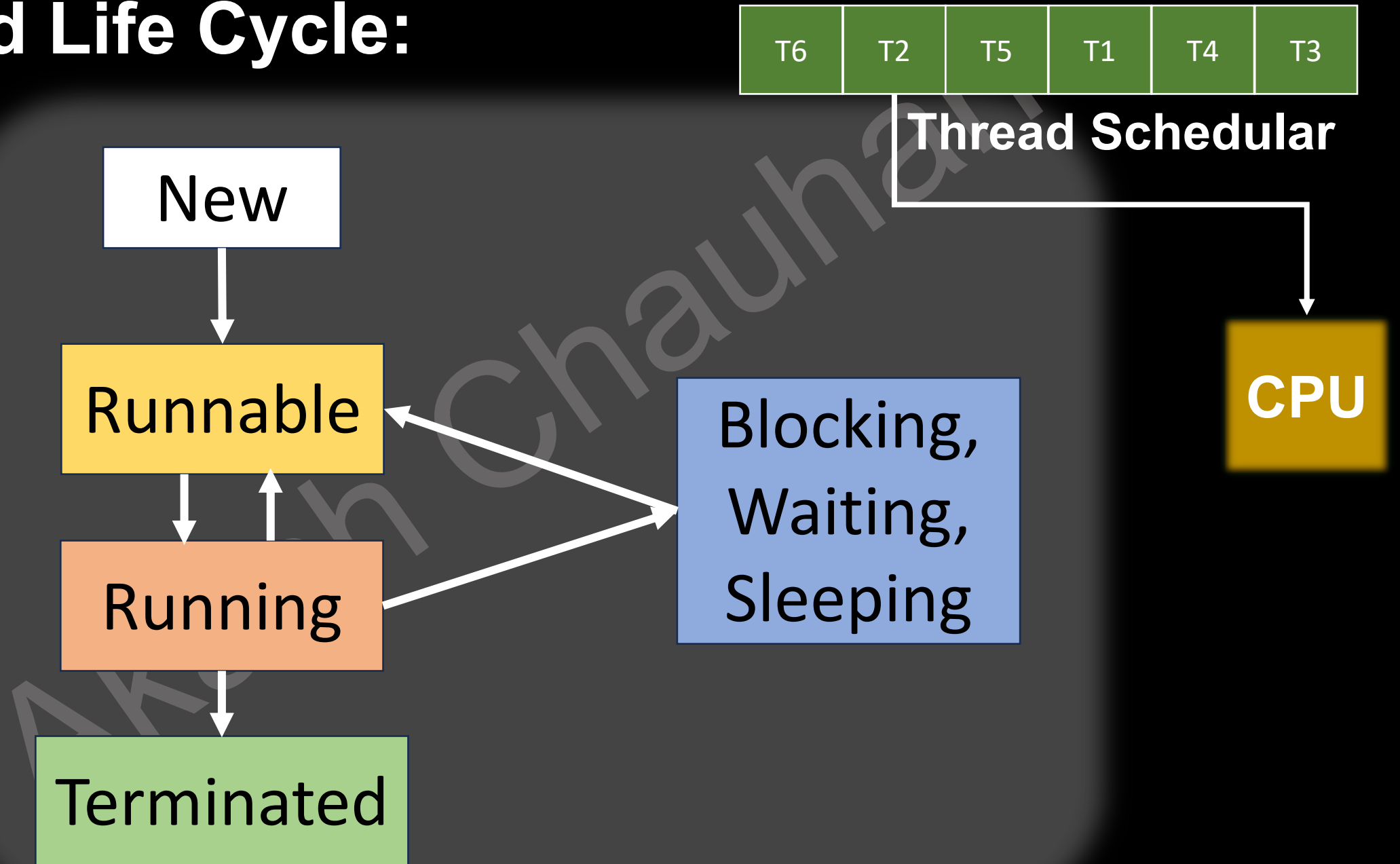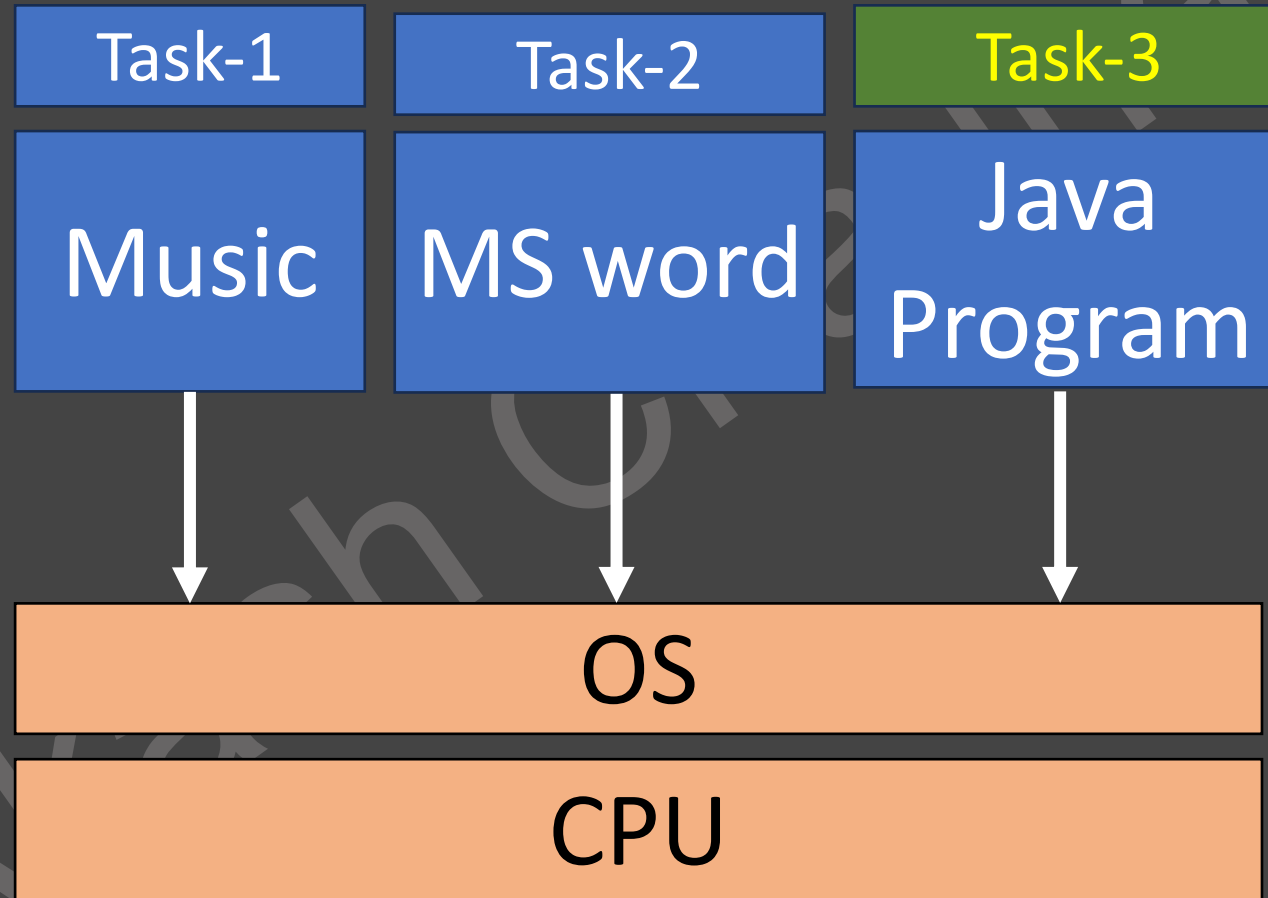
Thread Life Cycle (Different States):

1. <u>New:</u> When a thread lies in the new state, its code is yet to be run and such threads are waiting to be added in Thread Schedular.

2. <u>Runnable:</u> Now the thread is added into a "Thread Schedular" where threads wait for their turn of getting the CPU.

3. <u>Running:</u> Now, the thread code (run method) gets the CPU

4. <u>Terminated:</u> Dedicated work of a thread is done, now Thread Schedular has moved it to terminated state and that thread can never be invoked now.

5. <u>Blocking/Waiting/Sleeping:</u> Came out of "Running State", and waiting for for some time or notify method to be called

Multi-tasking

Multi-threading