

Future \Rightarrow It is a placeholder / bucket for the value that callable might return in the future, it's unblocks the current to complete initialisation and move ahead.

Array adder $\Rightarrow [1, 2, 3, 4, 5]$

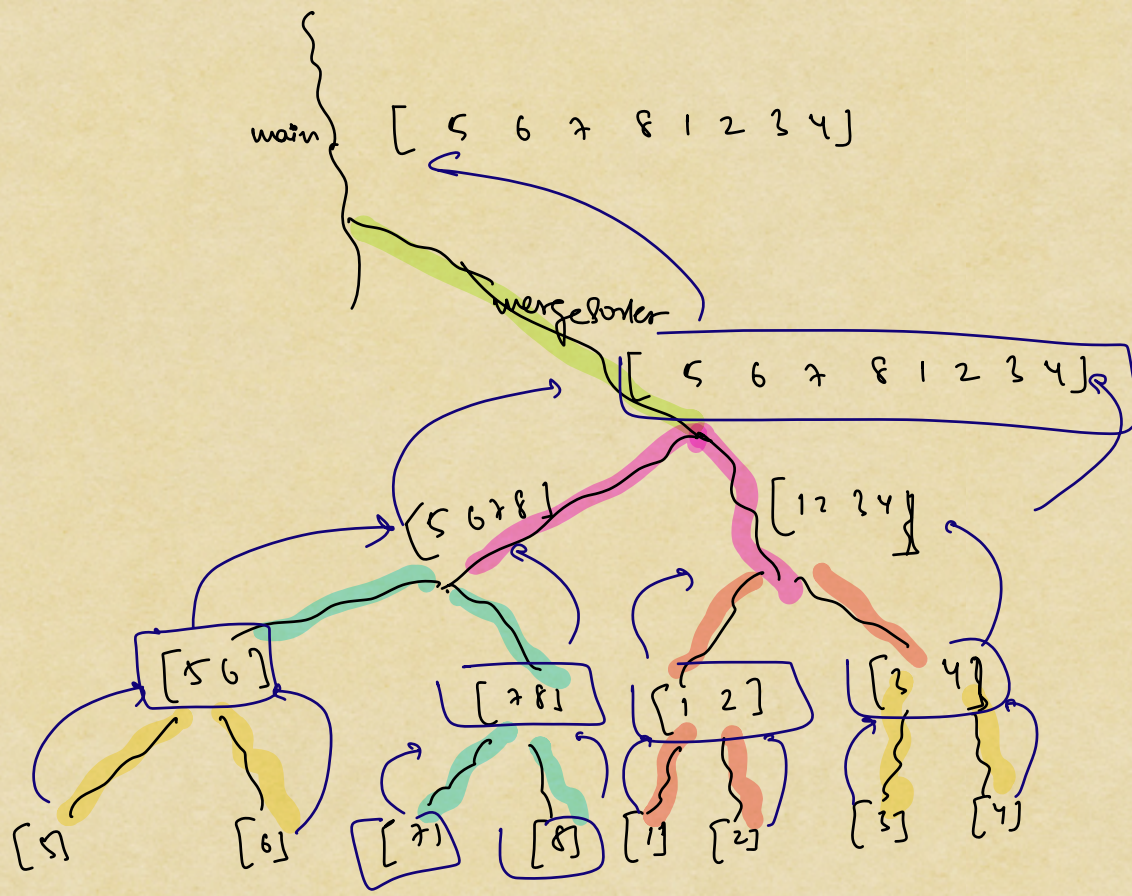
Integer call();

int sum = executor.submit(^{adder}());

- ① calling the executor the start executing the adder task
- ② whatever adder will return will be initialised to sum variable

Future < Integer > sum = executor.submit(sum);

sum.get() \leftarrow gets the actual value



Main

Thread t1 = t1.start();

Thread t2 = t2.start();

out(" ———")

Main thread doesn't wait for t1 & t2 to execute completely

JOIN : If we call join from a thread to another thread, it will wait until the next thread doesn't end.

Main

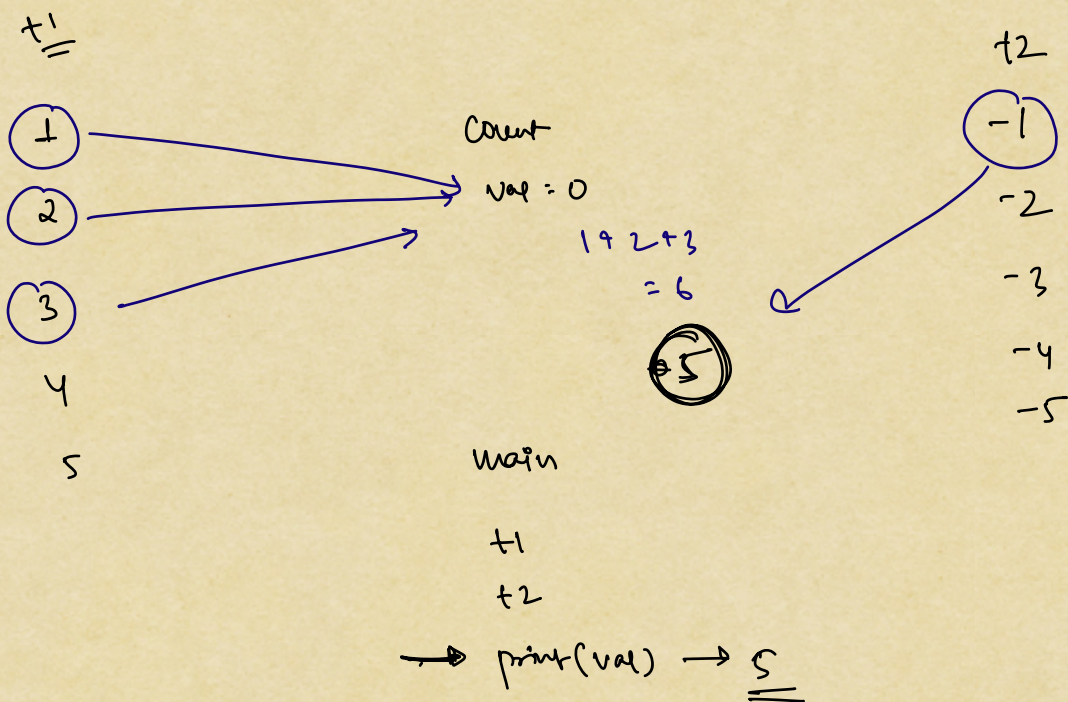
Thread t1 = t1.start();

Thread t2 = t2.start();

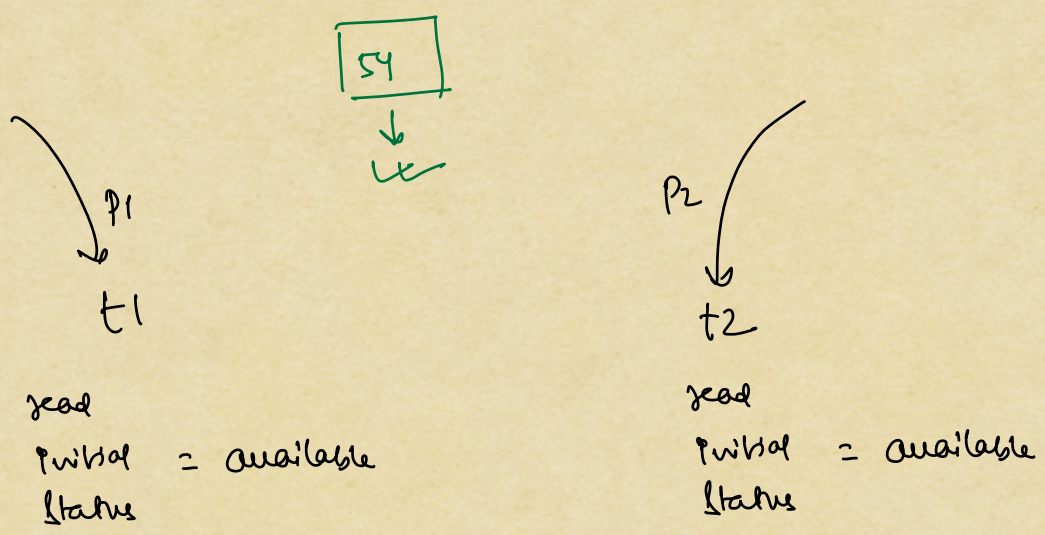
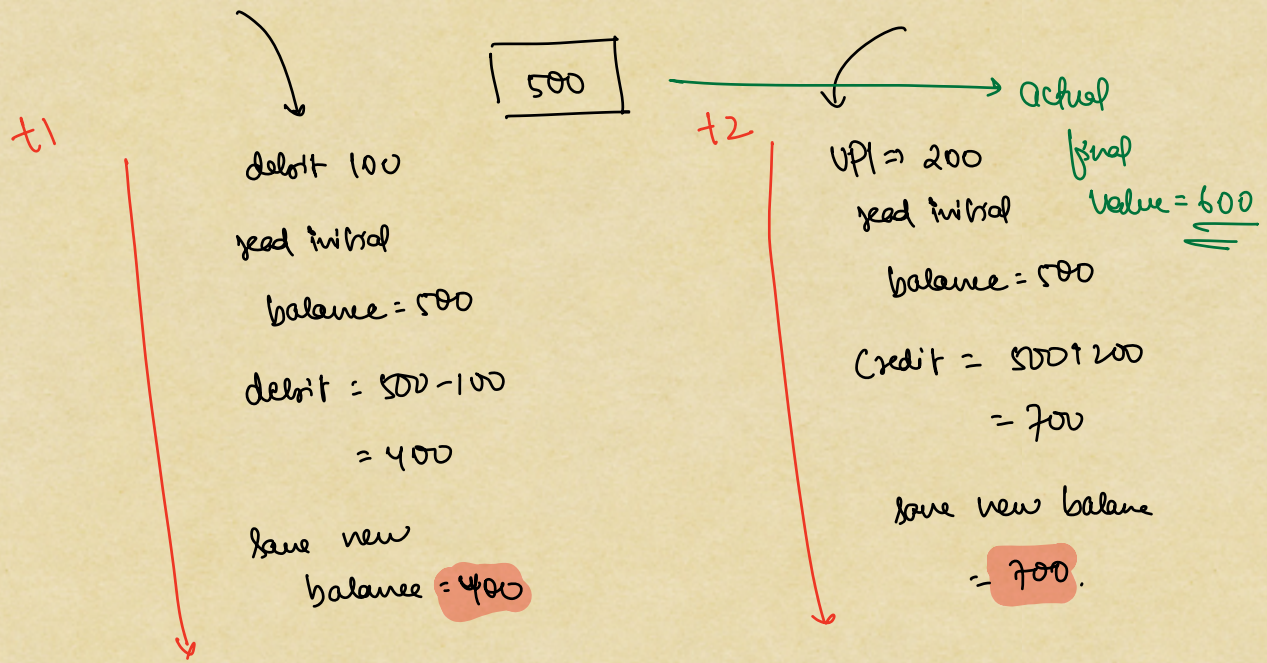
t1.join();

cout(" ———")

main will wait until t1 completes.



Multiple threads try to read and write on the same datapoint there is a high chance of ambiguous results.



Friday | Sat | Sun

OOPS → 1, 2, 3, 4, with final (6)

Threads → 1 | 2 | 3

task \Rightarrow

p0^* complete lecture \Rightarrow Threads 1/2/3

p1^* complete assign \Rightarrow Thread 1/2

p2^* Watch lectures \Rightarrow OOPS
(pending)

+ assignment