**Advanced Java: Multi-threading Part 6 -- Countdown Latches**

https://www.youtube.com/watch?v=1H-Vfu1v\_2g&t=10s

**import** java.util.concurrent.CountDownLatch;

**import** java.util.concurrent.ExecutorService;

**import** java.util.concurrent.Executors;

**class** Processor **implements** Runnable{

**private** CountDownLatch latch;

**public** Processor(CountDownLatch latch){

**this**.latch = latch;

}

**public** **void** run(){

System.*out*.println("Started.");

**try** {

Thread.*sleep*(3000);

} **catch** (InterruptedException e) {

}

latch.countDown();

}

}

**public** **class** apples{

**public** **static** **void** main(String[] args){

CountDownLatch cdl = **new** CountDownLatch(3);

ExecutorService executor = Executors.*newFixedThreadPool*(3);

**for**(**int** i=0; i<3; i++){

executor.submit(**new** Processor(cdl));

}

executor.shutdown();

**try** {

cdl.await(); //Waits the latch to continue

} **catch** (InterruptedException e) {

}

System.*out*.println("Completed.");

}

}

**Result:**

Started.

Started.

Started.

///3 second passes///

Completed.

**Explanation:**

