Producer consumer code

**import** java.util.concurrent.Semaphore;

/\*\* Copyright (c), AnkitMittal JavaMadeSoEasy.com \*/

**public** **class** ConsumerProducer{

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

          Semaphore semaphoreProducer=**new** Semaphore(1);

          Semaphore semaphoreConsumer=**new** Semaphore(0);

          System.*out*.println("semaphoreProducer permit=1 | semaphoreConsumer permit=0");

      Producer producer=**new** Producer(semaphoreProducer,semaphoreConsumer);

      Consumer consumer=**new** Consumer(semaphoreConsumer,semaphoreProducer);

       Thread producerThread = **new** Thread(producer, "ProducerThread");

       Thread consumerThread = **new** Thread(consumer, "ConsumerThread");

       producerThread.start();

       consumerThread.start();

   }

}

/\*\*

\* Producer Class.

\*/

**class** Producer **implements** Runnable{

   Semaphore semaphoreProducer;

   Semaphore semaphoreConsumer;

**public** Producer(Semaphore semaphoreProducer,Semaphore semaphoreConsumer) {

**this**.semaphoreProducer=semaphoreProducer;

**this**.semaphoreConsumer=semaphoreConsumer;

   }

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

**for**(**int** i=1;i<=7;i++){

**try** {

**semaphoreProducer.acquire();**

**System.*out*.println("Produced : "+i);**

**semaphoreConsumer.release();**

                 } **catch** (InterruptedException e) {

                       e.printStackTrace();

                 }

          }

   }

}

/\*\*

\* Consumer Class.

\*/

**class** Consumer **implements** Runnable{

   Semaphore semaphoreConsumer;

   Semaphore semaphoreProducer;

**public** Consumer(Semaphore semaphoreConsumer,Semaphore semaphoreProducer) {

**this**.semaphoreConsumer=semaphoreConsumer;

**this**.semaphoreProducer=semaphoreProducer;

   }

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

**for**(**int** i=1;i<=7;i++){

**try** {

**semaphoreConsumer.acquire();**

**System.*out*.println("Consumed : "+i);**

**semaphoreProducer.release();**

                 } **catch** (InterruptedException e) {

                       e.printStackTrace();

                 }

          }

   }

}