**package** com;

**class** At {

**int** n;

**boolean** status\_Flag = **false**;

**synchronized** **void** put (**int** n)

{

**try**

{

**while**(status\_Flag)

{

wait();

}

}

**catch**(InterruptedException e){}

**this**.n = n;

System.***out***.println("Put: " + n);

status\_Flag = **true**;

notify();

}

**synchronized** **int** get()

{

**try**

{

**while**(!status\_Flag)

{

wait();

}

}

**catch**(InterruptedException e){}

status\_Flag = **false**;

System.***out***.println("Got: " + n);

notify();

**return** n;

}

}

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

{

At a;

Producer( At a)

{

**this**.a = a;

**new** Thread(**this**, "Producer").start();

}

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

{

**int** i = 0;

**while**(**true**)

{

a.put(i++);

}

}

}

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

{

At a;

Consumer(At a)

{

**this**.a= a;

**new** Thread(**this**, "Consumer").start();

}

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

{

**while**(**true**)

{

a.get();

}

}

}

**public** **class** Sthread{

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

{

At a=**new** At();

//Thread a = new Thread ();

Producer p = **new** Producer(a);

Consumer c = **new** Consumer(a);

}

}