1 **import** java.util.Random;

2

3 **public** **class** Producer **implements** Runnable

4 {

5 **private** Buffer sharedData;

6 **private** Random delay = **new** Random();

7

8 **public** Producer(Buffer sharedData)

9 {

10 **this**.sharedData = sharedData;

11 }

12

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

14 {

15 **for**(**int** i = 1; i <= 10; i++)

16 {

17 **try**

18 {

19 Thread.sleep(delay.nextInt(10) + 1); **//simulate data processing**

20 }

21 **catch**(InterruptedException e)

22 {

23 }

24 sharedData.setData(i);

25 System.out.println("Produced " + i);

26 }

27 }

28 }

**Figure 14.13 The class Producer.**