```
-----ProducerTask.java-----
 1
   package com.ameya.tasks;
 2
 3
 4
    import java.util.concurrent.BlockingQueue;
 5
 6
    public class ProducerTask implements Runnable{
       BlockingQueue < Integer > obj;
 7
       public ProducerTask(BlockingQueue < Integer > obj) {
 8
 9
           this.obj=obj;
       }
10
11
12
       @Override
       public void run() {
13
       for(int i=1;i<=4;i++) {
14
15
           try {
              obj.put(i);
16
              System.out.println("PRODUCED => "+i);
17
           }catch(InterruptedException e) {
18
19
              e.printStackTrace();
20
           }
21
       }
22
23
       }
24
25
   }
          -----ConsumerTask.java-----
26
    package com.ameya.tasks;
27
28
    import java.util.concurrent.BlockingQueue;
29
30
    public class ConsumerTask implements Runnable {
31
       BlockingQueue < Integer > obj;
32
       private int taken=-1;
33
       public ConsumerTask(BlockingQueue < Integer > obj) {
34
           this.obj=obj;
35
36
       }
37
38
       @Override
       public void run() {
39
           while(taken !=4) {
40
              try {
41
```

```
42
                  taken=obj.take();
43
                  System.out.println("CONSUMED => "+taken);
              }catch(InterruptedException e) {
44
                  e.printStackTrace();
45
46
              }
47
           }
48
49
       }
50
51
   }
                       -- TestBlockingQueueProducerConsumer.java--
52
53
    package com.ameya.test;
54
55
    import java.util.concurrent.ArrayBlockingQueue;
    import java.util.concurrent.BlockingQueue;
56
57
    import com.ameya.tasks.ConsumerTask;
58
    import com.ameya.tasks.ProducerTask;
59
60
    public class TestBlockingQueueProducerConsumer {
61
62
       public static void main(String[] args) {
63
           BlockingQueue < Integer > g = new ArrayBlockingQueue < Integer > (4);
64
65
           ProducerTask p1=new ProducerTask(q);
           ConsumerTask c1=new ConsumerTask(q);
66
           Thread pThread=new Thread(p1);
67
68
           Thread cThread=new Thread(c1):
           pThread.start();
69
70
           cThread.start();
           //Try using Executor Framework for thread pooling
71
72
       }
73
74 }
75
```