```java
----------Messager.java------------
package com.ameya.util;

import java.util.Date;
import java.util.Vector;

public class Messager {
    final static int SIZE=5;
    Vector<String> msgVector=new Vector<String>();
    boolean msgMonitor=false;
    public synchronized void putMessage() {
        while(msgMonitor) {
            try {
                wait();
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
        }
            String msg=new Date().toString();
            msgVector.addElement(msg);
            System.out.println("Message Added !! "+msg);
            if(msgVector.size()==SIZE) {
                msgMonitor=true;
                notify();
            }


    }
    public synchronized void getMessage() {
            while(!msgMonitor) {
                try {
                    wait();
                } catch (InterruptedException e) {
                    e.printStackTrace();
                }
            }
            String msg=msgVector.firstElement();
            msgVector.removeElement(msg);
            System.out.println("Removed msg :: "+msg);
            if(msgVector.size()==0) {
                msgMonitor=false;
```

```java
42                    notify();
43                }
44        }
45  }
```
------------MessageProducer.java------------
```java
47  package com.ameya.threads;
48
49  import com.ameya.util.Messager;
50
51  public class MessageProducer extends Thread{
52      private Messager messager;
53      public MessageProducer(Messager messager) {
54          this.messager=messager;
55          start();
56      }
57      public void run() {
58              while(true) {
59                  messager.putMessage();
60                  try {
61                      Thread.sleep(3000);
62                  } catch (InterruptedException e) {
63                      e.printStackTrace();
64                  }
65              }
66
67      }
68  }
```
------------MessageConsumer.java------------
```java
70  package com.ameya.threads;
71
72  import com.ameya.util.Messager;
73
74  public class MessageConsumer extends Thread{
75
76      private Messager messager;
77      public MessageConsumer(Messager messager) {
78          this.messager=messager;
79                  start();
80      }
81      public void run() {
82          while(true) {
```

```java
83              messager.getMessage();
84              try {
85                  Thread.sleep(3000);
86              } catch (InterruptedException e) {
87                  e.printStackTrace();
88              }
89          }
90      }
91  }
```
92 ----------------TestInterThreadCommunication.java------------
```java
93  package com.ameya.test;
94
95  import com.ameya.threads.MessageConsumer;
96  import com.ameya.threads.MessageProducer;
97  import com.ameya.util.Messager;
98
99  public class TestInterThreadCommunication {
100
101     public static void main(String[] args) {
102         Messager messager=new Messager();
103         new MessageProducer(messager);
104         new MessageConsumer(messager);
105
106     }
107
108 }
109
```