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Aim: To Implement the Deadlock Detection Algorithm.

```
Code:
TestThread.java
import java.io.*;
public class TestThread {
public static Object Lock1 = new Object();
public static Object Lock2 = new Object();
public static void main(String args[]){
ThreadDemo1 T1 = new ThreadDemo1();
ThreadDemo2 T2 = new ThreadDemo2();
T1.start();
T2.start();
}
private static class ThreadDemo1 extends Thread {
public void run() {
  synchronized (Lock1) {
     System.out.println("Thread 1: Holding lock 1...");
     try{ Thread.sleep(10); }
     catch(InterruptedException e){}
     System.out.println("Thread 1: Waiting for lock 2...");
     synchronized(Lock2){
     System.out.println("Thread 1: Holding lock 1 & 2...");
}
     synchronized(Lock1){
     System.out.println("Thread 2: Holding lock 1 & 2...");
```

Output:

```
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mid-tipoliticalization of State TestThread.Same
mid-tipoliticalization State TestThread
Thread 1: Molding Lock 1...
Thread 2: Molding Lock 2...
Thread 2: Molding for Lock 2...
Thread 1: Maiting for Lock 2...
```

Conclusion:

Deadlock has been successfully detected between the two threads.