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Aim : To Implement the Deadlock Detection Algorithm.

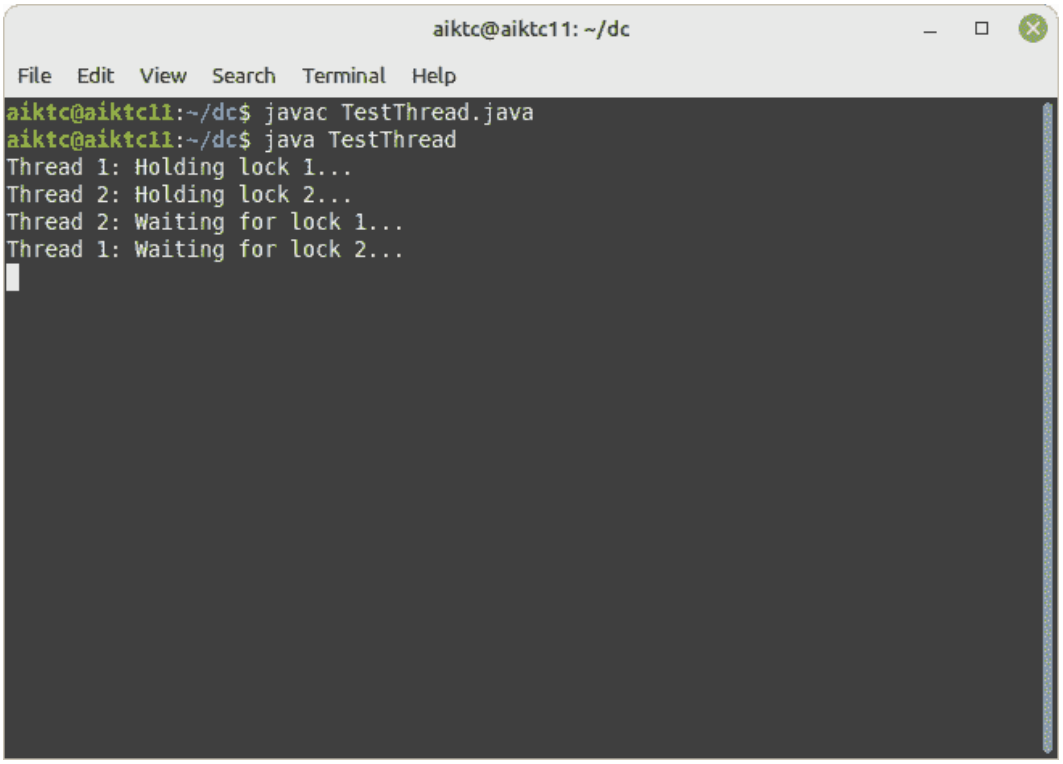
Code:
TestThread.java

```
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:



Conclusion:

Deadlock has been successfully detected between the two threads.