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| Name: Sayyed Sohail Rashid | Course Name: DC-LAB |
| Class: BE-CO | Batch: 01 |
| Roll no: 18CO48 | Experiment No: 05 |

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...");

}

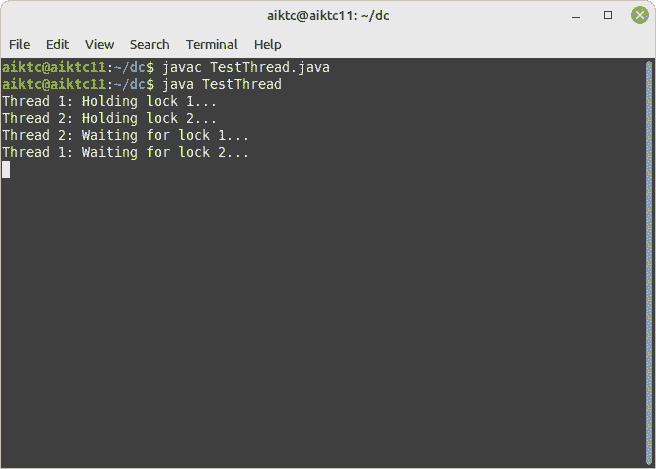
}

}

}

}

Output:



Conclusion:

Deadlock has been successfully detected between the two threads.