


Class Task 4

Deadlock

Task: Create a deadlock situation by writing two Inner Classes within class TestThread

```
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();  
    }  
}
```

Inner class ThreadDemo1 is given below. Fill up the missing code/s and write another Inner Class ThreadDemo2 to create a possible Deadlock situation.

```
// Inner class 1  
private static class ThreadDemo1 extends Thread {  
    @Override  
    public void run() {  
        synchronized (Lock1) {  
            System.out.println("Thread 1: Holding lock 1...");  
  
            try {  
                   
            } catch (InterruptedException e) {}  
            System.out.println("Thread 1: Waiting for lock 2...");  
  
            synchronized (Lock2) {  
                System.out.println("Thread 1: Holding lock 1 & 2...");  
            }  
        }  
    }  
}
```