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**COSC 354.001**

**Assignment 2**

**Input – Java Thread**

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...");

}

}

}

}

private static class ThreadDemo2 extends Thread {

public void run() {

synchronized (Lock1) {

System.out.println("Thread 2: Holding lock 1...");

try {

Thread.sleep(10);

}catch (InterruptedException e) {}

System.out.println("Thread 2: Waiting for lock 2...");

synchronized (Lock2) {

System.out.println("Thread 2: Holding lock 1 & 2...");

}

}

}

}

}

**Output**

Thread 1: Holding lock 1...

Thread 1: Waiting for lock 2...

Thread 1: Holding lock 1 & 2...

Thread 2: Holding lock 1...

Thread 2: Waiting for lock 2...

Thread 2: Holding lock 1 & 2...