

13/2/24

Lab 10 (B)

Demonstrate Deadlock.

class A {

synchronized void foo(B b) {

String name = Thread.currentThread()

.getName();

System.out.println(name + " entered

A.foo());

try {

Thread.sleep(1000);

}

catch (Exception e) {

System.out.println("A interrupted");

}

System.out.println(name + " trying

to call B.last()");

b.last();

System.out.println(name + " finished

executing A.foo());

}

synchronized void last() {

System.out.println(name + " executing B.last()");

System.out.println("Inside A.last()");

Class B {

Synchronized void bar(A a)

String name = Thread.currentThread().
getName();

System.out.println(name + " entered
B.bar()");

try {
Thread.sleep(1000);

catch (Exception e)

System.out.println("B interrupted")

System.out.println(name + " trying
to call A.last()");

a.last();

System.out.println(name + " finished
executing B.bar()");

d synchronized void last()

b finish main body

g System.out.println("Inside B.last");

class Deadlock implements Runnable

A a = new A();
B b = new B();

Deadlock()

L a.b(); b.a();

Thread.currentThread().setName

("Main Thread");

Thread t = new Thread(this,

name "Raining Thread");

t.start();

a.foo(b);

System.out.println("Back in
main thread");

5

g

public void run()

b.bar(a);

System.out.println("Back in other
thread");

5

public static void main (String args) {
 new Deadlock();

y

y

O/p:

main thread entered A::foo

Racing Thread entered B::Bar

Racing Thread trying to call A::last()

main thread trying to call B::last()

Inside A::last

Back in main Thread

Racing Thread trying to call A::last()

Inside A::last

Back in Other Thread.

S.S.
15/2/2024