10) DEMONSTRATE INTER PROCESS COMMUNICATION AND 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();
  }
  void 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();
  }
  void last() {
    System.out.println("Inside B.last");
  }
}
class Deadlock implements Runnable {
  A a = new A();
  Bb = new B();
  Deadlock() {
    Thread.currentThread().setName("MainThread");
    Thread t = new Thread(this, "RacingThread");
    t.start();
    a.foo(b);
    System.out.println("Back in main thread");
  }
  public void run() {
    b.bar(a);
    System.out.println("Back in other thread");
```

```
}
 public static void main(String args[]) {
   System.out.println("Name: Aarusha GP, USN: 1BM23CS005");
   new Deadlock();
 }
}
OUTPUT:
C:\Users\arush\OneDrive\Desktop\1bm23cs005>javac Deadlock.java
C:\Users\arush\OneDrive\Desktop\1bm23cs005>java Deadlock
Name: Aarusha GP, USN: 1BM23CS005
RacingThread entered B.bar
MainThread entered A.foo
RacingThread trying to call A.last()
MainThread trying to call B.last()
Inside A.last
Inside B.last
Back in main thread
Back in other thread
```