```
import database. DataBase:
import database.Dbltem;
import transactions. DeadlockTransaction;
import transactions. No Deadlock Transaction;
import transactions. Transaction;
import java.util.concurrent.TimeUnit;
public class SGBD {
  public static void main(String[] args) throws InterruptedException {
    //executeSerialSchedule();
    //executeConcurrentScheduleWithNoDeadLockPrevention();
    executeConcurrentScheduleWithDeadLockPrevention();
  }
  public static void executeSerialSchedule(){
    System.out.println("Executing serial schedule...");
    DataBase dataBase = new DataBase("Alunos");
    Dbltem itemA = dataBase.getItemFromDataBase("Nome", 1, "Bianca");
    Dbltem itemB = dataBase.getItemFromDataBase("Nome", 2, "Lucas");
    Transaction transaction1 = new DeadlockTransaction(itemA, itemB);
    Transaction transaction2 = new DeadlockTransaction(itemB, itemA, transaction1);
    transaction1.start();
    transaction2.start();
  }
  public static void executeConcurrentScheduleWithNoDeadLockPrevention(){
    System.out.println("Executing concurrent schedule with no deadlock prevention...");
    DataBase dataBase = new DataBase("Alunos");
    Dbltem itemA = dataBase.getItemFromDataBase("Nome", 1, "Bianca");
    Dbltem itemB = dataBase.getItemFromDataBase("Nome", 2, "Lucas");
    Transaction transaction1 = new DeadlockTransaction(itemA, itemB);
    Transaction transaction2 = new DeadlockTransaction(itemB, itemA);
    transaction1.start();
    transaction2.start();
  }
  public static void executeConcurrentScheduleWithDeadLockPrevention() throws InterruptedException {
    System.out.println("Executing concurrent schedule with deadlock prevention...");
    DataBase dataBase = new DataBase("Alunos");
    Dbltem itemA = dataBase.getItemFromDataBase("Nome", 1, "Bianca");
    Dbltem itemB = dataBase.getItemFromDataBase("Nome", 2, "Lucas");
    Transaction transaction1 = new NoDeadlockTransaction(itemA, itemB);
    Transaction transaction2 = new NoDeadlockTransaction(itemB, itemA);
    transaction2.start();
    TimeUnit.MILLISECONDS.sleep(30);
    transaction1.start();
  }
```

}			