import java.util.ArrayList;

import java.util.List;

class Seat {

    int seatNumber;

    boolean isBooked;

    Seat(int seatNumber) {

        this.seatNumber = seatNumber;

        this.isBooked = false;

    }

}

class TicketBooking implements Runnable {

    List<Seat> seats;

    int seatToBook;

    TicketBooking(List<Seat> seats, int seatToBook) {

        this.seats = seats;

        this.seatToBook = seatToBook;

    }

    public void run() {

        synchronized (seats) {

            for (Seat seat : seats) {

                if (seat.seatNumber == seatToBook && !seat.isBooked) {

                    seat.isBooked = true;

                    System.out.println(Thread.currentThread().getName() + " booked seat " + seatToBook);

                    return;

                }

            }

            System.out.println(Thread.currentThread().getName() + " failed to book seat " + seatToBook);

        }

    }

}

public class TicketBookingSystem {

    public static void main(String[] args) {

        List<Seat> seats = new ArrayList<>();

        for (int i = 1; i <= 5; i++) {

            seats.add(new Seat(i));

        }

        Thread t1 = new Thread(new TicketBooking(seats, 1), "User-1");

        Thread t2 = new Thread(new TicketBooking(seats, 1), "VIP-User");

        t1.setPriority(Thread.MIN\_PRIORITY);

        t2.setPriority(Thread.MAX\_PRIORITY);

        t2.start();

        t1.start();

    }

}

**OUTPUT**

