EXPERIMENT NO 3

```
NAME-PINKY PAMECHA
SAP ID-60004220056
ROLL NO-C114
CODE:
class BusReservation {
  private int totalSeatsAvailable = 2;
  public void bookTicket(String name, int numberOfSeats) {
    if (totalSeatsAvailable >= numberOfSeats) {
      System.out.println("Hi, " + name + " : " + numberOfSeats + " Seats booked successfully.");
      totalSeatsAvailable = totalSeatsAvailable - numberOfSeats;
    } else {
      System.out.println("Hi, " + name + " : Seats Not Available.");
  }
}
class TicketBookingThread extends Thread {
  private BusReservation br;
  private String passengerName;
  private int numberOfSeats;
  public TicketBookingThread(BusReservation br, String passengerName, int numberOfSeats) {
    this.br = br;
    this.passengerName = passengerName;
    this.numberOfSeats = numberOfSeats;
  }
  public void run() {
    br.bookTicket(passengerName, numberOfSeats);
  }
}
public class BusTicketReservationSystem {
  public static void main(String[] args) {
    System.out.println("WELCOME TO ABC BUS RESERVATION!");
    System.out.println("Name-Pinky Pamecha");
    System.out.println("Sapid-60004220056");
    System.out.println("Roll no-C114");
    BusReservation br = new BusReservation();
    TicketBookingThread t1 = new TicketBookingThread(br, "pinky", 2);
    TicketBookingThread t2 = new TicketBookingThread(br, "meet", 2);
    t1.start();
    t2.start();
  }
}
```

OUTPUT:

```
JDroid
   External Libraries
                      Upload Files
                                                          Output
    WELCOME TO ABC BUS RESERVATION!
    Name-Pinky Pamecha
    Sapid-60004220056
    Roll no-C114
    Hi, meet : 2 Seats booked successfully.
Hi, pinky : 2 Seats booked successfully.
  6 CPU Time: 0.08 sec(s) | Memory: 39888 kilobyte(s) | Compiled and & executed in 1.308 sec(s)
SYNCRONIZED CODE:
class BusReservation {
  private int totalSeatsAvailable = 2;
  public synchronized void bookTicket(String name, int numberOfSeats) {
     if (totalSeatsAvailable >= numberOfSeats) {
       System.out.println("Hi, " + name + ": " + numberOfSeats + " Seats booked successfully.");
       totalSeatsAvailable = totalSeatsAvailable - numberOfSeats;
     } else {
       System.out.println("Hi, " + name + " : Seats Not Available.");
    }
  }
}
class TicketBookingThread extends Thread {
  private BusReservation br;
  private String passengerName;
  private int numberOfSeats;
  public TicketBookingThread(BusReservation br, String passengerName, int numberOfSeats) {
     this.br = br;
     this.passengerName = passengerName;
     this.numberOfSeats = numberOfSeats;
  }
  public void run() {
     br.bookTicket(passengerName, numberOfSeats);
}
public class BusTicketReservationSystem {
```

public static void main(String[] args) {

System.out.println("Name-Pinky Pamecha");

System.out.println("WELCOME TO ABC BUS RESERVATION!");

```
System.out.println("Sapid-60004220056");
System.out.println("Roll no-C114");
BusReservation br = new BusReservation();
TicketBookingThread t1 = new TicketBookingThread(br, "pinky", 2);
TicketBookingThread t2 = new TicketBookingThread(br, "meet", 2);

t1.start();
t2.start();
}
```

OUTPUT:

