

```
public class BusBookingSystem {  
    public static void main(String[] args) {  
        System.out.println("Bus Booking System - Week 3");  
  
        Bus b1 = new Bus(101, "ExpressLine", "AC", "Rajkot", "Ahmedabad", "10:00", 40);  
        Bus b2 = new Bus(102, "CityBus", "NON_AC", "Rajkot", "Mumbai", "2:30", 35);  
  
        b1.show();  
        b2.show();  
  
        Booking book = new Booking();  
        book.makeBooking(101, 5);  
        book.makeBooking(102, 10, "Window");  
        book.makeBooking(101, 15, "Aisle", 1500);  
  
        Passenger p = new Passenger(201, "Smit", "smit@gmail.com", "9876543210");  
        p.showProfile();  
        p.showBookings();  
  
        Bus buses[] = new Bus[3];  
        buses[0] = b1;  
        buses[1] = b2;  
        buses[2] = new Bus(103, "Luxury", "SLEEPER", "Ahmedabad", "Delhi", "10:00 PM", 30);  
  
        System.out.println("All Buses:");  
        for(int i = 0; i < buses.length; i++) {  
            buses[i].show();  
        }  
    }  
}
```

```
class Bus {  
    int id;  
    String operator;  
    String type;  
    String from;  
    String to;  
    String time;  
    int seats;  
  
    Bus(int id, String operator, String type, String from, String to, String time, int seats) {  
        this.id = id;  
        this.operator = operator;  
        this.type = type;  
        this.from = from;  
        this.to = to;  
        this.time = time;  
        this.seats = seats;  
    }  
  
    void show() {  
        System.out.println("Bus ID: " + id + ", Operator: " + operator + ", Type: " + type);  
        System.out.println("From: " + from + " To: " + to + " Time: " + time + " Seats: " + seats);  
        System.out.println();  
    }  
}
```

```
class Booking {  
    int bookingId = 1000;  
  
    void makeBooking(int busId, int seat) {
```

```

        bookingId++;

        System.out.println("Booking " + bookingId + " for Bus " + busId + " Seat " + seat);
    }

    void makeBooking(int busId, int seat, String type) {

        bookingId++;

        System.out.println("Booking " + bookingId + " for Bus " + busId + " Seat " + seat + " Type " +
type);
    }

    void makeBooking(int busId, int seat, String type, double fare) {

        bookingId++;

        System.out.println("Booking " + bookingId + " for Bus " + busId + " Seat " + seat + " Type " + type
+ " Fare " + fare);
    }
}

class User {

    int id;

    String name;

    String email;

    User(int id, String name, String email) {

        this.id = id;

        this.name = name;

        this.email = email;
    }

    void showProfile() {

        System.out.println("User ID: " + id + " Name: " + name + " Email: " + email);
    }
}

```

```
class Passenger {  
    String phone;  
    int id;  
    String name;  
    String email;  
  
    Passenger(int id, String name, String email, String phone) {  
        this.id = id;  
        this.name = name;  
        this.email = email;  
        this.phone = phone;  
    }  
  
    void showProfile() {  
        System.out.println("Passenger ID: " + id + " Name: " + name + " Email: " + email + " Phone: " +  
phone);  
    }  
  
    void showBookings() {  
        System.out.println(name + " has bookings");  
    }  
}
```