In this exercise we will assign rooms to the customers when they come to book a room. The customers are registered only during the booking process.

**Note:**Assume that, each time a new customer comes.

When the customer specifies his/her needs, you should search for the requirements and assign the room if the specified room is available. Else ask the customer to alter his requirements.

The reservation happens in the Reservation class. In the Main class create a Reservation List to store all the reservations. Each time check if the room is available before assigning the room.

So, there are two things to check before assigning the room:

1. Fulfilling the requirements.
2. Availability of the room.

Create a Reservation class with folowing data members:

customer, room, checkInDate, checkOutDate, bookingDate

and member functions:

* argumented constructor.

In the Main class, after reservation, add the Reservation object to the Reservation List.

Add a Boolean variable to check the availability of the room.

* availability

Once a room is booked set the availability as false. Only when the availability is true, a customer can book a room.

For simplicity, assume that the room is unavailable after booking, irrespective of the date.

**Sample Input and Ouput:**   
  
Enter the Hotel details:   
Enter the Hotel Name:   
**taj**   
Enter the Hotel ID:   
**1**   
Enter the Hotel Address   
**cbe**   
Enter the Room Details:   
Enter the Room Id:   
**1**   
Enter the Room Number:   
**101**   
Enter the Room Type:   
1)Normal   
2)Delux   
3)Super Delux   
**1**   
Enter the Room Capacity:(1/2/3/4)   
**1**   
AC Service (true/false):   
**true**   
Wi-Fi Service (true/false):   
**true**   
Cable Service (true/false):   
**true**   
Laundry Service (true/false):   
**true**   
Do you want to add Another Room (yes/no):   
**yes**   
Enter the Room Details:   
Enter the Room Id:   
**2**   
Enter the Room Number:   
**202**   
Enter the Room Type:   
1)Normal   
2)Delux   
3)Super Delux   
**1**   
Enter the Room Capacity:(1/2/3/4)   
**1**   
AC Service (true/false):   
**true**   
Wi-Fi Service (true/false):   
**true**   
Cable Service (true/false):   
**true**   
Laundry Service (true/false):   
**true**   
Do you want to add Another Room (yes/no):   
**yes**   
Enter the Room Details:   
Enter the Room Id:   
**3**   
Enter the Room Number:   
**303**   
Enter the Room Type:   
1)Normal   
2)Delux   
3)Super Delux   
**3**   
Enter the Room Capacity:(1/2/3/4)   
**3**   
AC Service (true/false):   
**true**   
Wi-Fi Service (true/false):   
**false**   
Cable Service (true/false):   
**true**   
Laundry Service (true/false):   
**true**   
Do you want to add Another Room (yes/no):   
**no**   
Thank you for booking !!   
The rooms Details in taj :   
Hotel Name:taj.   
Hotel ID:1.   
Hotel Address:cbe.   
  
Room Details:   
  
Room Number :101   
Room Type :Normal   
Services Available:   
AC   
Wi-Fi   
Cable Connection   
Laundry   
  
Room Number :202   
Room Type :Normal   
Services Available:   
AC   
Wi-Fi   
Cable Connection   
Laundry   
  
Room Number :303   
Room Type :Super Delux   
Services Available:   
AC   
Cable Connection   
Laundry   
  
Reservation   
  
Customer Registration:   
  
Enter the customer details:   
Enter the first name:   
**karthikeyan**   
Enter the last name:   
**j**   
Enter the contact number:   
**1234123**   
Enter the e-mail id:   
**jk@a.com**   
Enter the proof type:   
**licence**   
Enter the proof id:   
**TN1234**   
  
The customer details are as follows   
The customer details are:   
First Name : karthikeyan   
Last Name : j   
Contact Number : 1234123   
E-Mail : jk@a.com   
Proof Type : licence   
Proof ID : TN1234   
  
Enter the room requirements:   
Enter the Room Type:   
1)Normal   
2)Delux   
3)Super Delux   
**2**   
Enter the Room Capacity:(1/2/3/4)   
**2**   
AC Service (true/false):   
**true**   
Wi-Fi Service (true/false):   
**true**   
Cable Service (true/false):   
**true**   
Laundry Service (true/false):   
**true**   
No rooms of specified requirements   
Please re-enter   
  
  
Enter the room requirements:   
Enter the Room Type:   
1)Normal   
2)Delux   
3)Super Delux   
**1**   
Enter the Room Capacity:(1/2/3/4)   
**1**   
AC Service (true/false):   
**true**   
Wi-Fi Service (true/false):   
**true**   
Cable Service (true/false):   
**true**   
Laundry Service (true/false):   
**true**   
Please take room number 101   
  
Enter the Booking date   
**01/05/2015**   
Enter the check-in date   
**01/05/2015**   
Enter the check-out date   
**02/05/2015**   
Do you want to perform another reservation?(y/n)   
**y**   
Reservation   
  
Customer Registration:   
  
Enter the customer details:   
Enter the first name:   
**jimmy**   
Enter the last name:   
**shar**   
Enter the contact number:   
**154789636**   
Enter the e-mail id:   
**jimmy@sha.com**   
Enter the proof type:   
**passport**   
Enter the proof id:   
**IND123**   
  
The customer details are as follows   
The customer details are:   
First Name : jimmy   
Last Name : shar   
Contact Number : 154789636   
E-Mail : jimmy@sha.com   
Proof Type : passport   
Proof ID : IND123   
  
Enter the room requirements:   
Enter the Room Type:   
1)Normal   
2)Delux   
3)Super Delux   
**1**   
Enter the Room Capacity:(1/2/3/4)   
**1**   
AC Service (true/false):   
**true**   
Wi-Fi Service (true/false):   
**true**   
Cable Service (true/false):   
**true**   
Laundry Service (true/false):   
**true**   
Please take room number 202   
  
Enter the Booking date   
**01/03/2015**   
Enter the check-in date   
**01/05/2015**   
Enter the check-out date   
**01/15/2015**   
Do you want to perform another reservation?(y/n)   
**n**   
The reservation details are as follows:   
  
karthikeyan - 101 - 01/05/2015 - 01/05/2015 - 02/05/2015   
jimmy - 202 - 01/03/2015 - 01/05/2015 - 01/15/2015