# Customer Table Booking - Requirement 2

## Requirement 2:

One of the main features of any application is searching. In this requirement, you need to search customers based on name, birthdate, and rating.

1. Create a Customer Class with the following private attributes:

| Member Field Name | Type |
|---|---|
| id | Long |
| name | String |
| mobileNumber | String |
| birthdate | java.util.Date |
| averageSpendAmount | Double |
| totalAmount | Double |
| dateEnrolled | java.util.Date |
| rating | Double |

Mark all the attributes as private, Create / Generate appropriate Getters & Setters,Add a default constructor and a parameterized constructor to take in all attributes in the given order:**Customer(Long id, String name, String mobileNumber, java.util.Date birthdate, Double averageSpendAmount, Double totalAmount, java.util.Date dateEnrolled, Double rating)** 2. Create the following static methods in theContactBO class,

| Method Name | Description |
|---|---|
| static Customer createCustomer(String line) | This method accepts a String as argument. Commaseparated Customer detail is passed to this method. Split the value then create a customer object and return the customer object. |
| static List<Customer> findCustomer(List<Customer> customerList,String name) | This method accepts customer list and a customer name as arguments. Find the list of customers with given name and return the list. If no customers found with the given name return null. |

| static List<Customer> findCustomer(List<Customer> customerList,Date birth) | This method accepts customer list and birth date as arguments. Find the list of customers with the given birth date and return the list. If no customers found with the givenbirth date return null. |
|---|---|
| static List<Customer> findCustomer(List<Customer> customerList,Double rating) | This method accepts customer list and rating as arguments. Find the list of customers with the given rating value and return the list. If no customers found with the givenrating return null. |

The input format consists of customer details separated by comma in the below order,

(id, name, mobileNumber, birthdate, averageSpendAmount, totalAmount, dateEnrolled, rating) When the "customer" object is printed, it should display the following format

Print format:
System.out.format("%-5s %-15s %-15s %-15s %-20s %-15s %-15s %s\n", "Id","Name","Mobile

Number","Date of Birth","Average spent amount","Total amount","Date Enrolled","Rating");

## Sample INPUT & OUTPUT 1:

Enter the number of customers:

**3**

**1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3**

**2,James,9876543201,12-12-1991,6000,35000,12-12-2013,4**
**3,John,9567843201,14-09-1987,6000,35000,12-12-2013,4** Enter the
search type:

1.By name

2.By birth date

3.By rating

**1**

Enter the name of the customer to be searched:

**John**

Id    Name         Mobile Number   Date of Birth   Average spent amount  Total amount    Date Enrolled
Rating

| 1 | John | 9876543210 | 12-12-1990 | 5000.0 | 25000.0 | 12-12-2012 | 3.0 3 |
| John | 9567843201 | 14-09-1987 | 6000.0 | 35000.0 | 12-12-2013 | 4.0 | |

## Sample INPUT & OUTPUT 2:

Enter the number of customers:

**3**

**1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3**

**2,James,9876543201,12-12-1991,6000,35000,12-12-2013,4**
**3,Parker,9567843201,14-09-1987,6000,35000,12-12-2013,4** Enter the
search type:

1.By name

2.By birth date

3.By rating

**3**

Enter the rating of the customer to be searched:

**4**

| Id | Name | Mobile Number | Date of Birth | Average spent amount | Total amount | Date Enrolled | Rating |
|----|------|---------------|---------------|----------------------|--------------|---------------|--------|
| 2 | James | 9876543201 | 12-12-1991 | 6000.0 | 35000.0 | 12-12-2013 | 4.0 |
| 3 | Parker | 9567843201 | 14-09-1987 | 6000.0 | 35000.0 | 12-12-2013 | 4.0 |

## Sample INPUT & OUTPUT 3:

Enter the number of customers:

**3**

**1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3**
**2,James,9876543201,12-12-1990,6000,35000,12-12-2013,4**
**3,Parker,9567843201,14-09-1987,6000,35000,12-12-2013,4** Enter the
search type:

1.By name

2.By birth date

3.By rating

**2**

Enter the birth date of the customer to be searched:

**12-12-1990**

| Id | Name | Mobile Number | Date of Birth | Average spent amount | Total amount | Date Enrolled | Rating |
|----|------|---------------|---------------|----------------------|--------------|---------------|--------|
| 1 | John | 9876543210 | 12-12-1990 | 5000.0 | 25000.0 | 12-12-2012 | 3.0 |
| 2 | James | 9876543201 | 12-12-1990 | 6000.0 | 35000.0 | 12-12-2013 | 4.0 |

**Sample INPUT & OUTPUT 4:**

Enter the number of customers:

**3**

**1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3**

**2,James,9876543201,12-12-1991,6000,35000,12-12-2013,4**
**3,John,9567843201,14-09-1987,6000,35000,12-12-2013,4** Enter the
search type:

1.By name

2.By birth date

3.By rating

**1**

Enter the name of the customer to be searched:

**Starc**

No customers found with the given name

**Sample INPUT & OUTPUT 5:**

Enter the number of customers:

**3**

**1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3**

**2,James,9876543201,12-12-1991,6000,35000,12-12-2013,4**
**3,Parker,9567843201,14-09-1987,6000,35000,12-12-2013,4** Enter the search type:

1.By name

2.By birth date

3.By rating

**3**

Enter the rating of the customer to be searched:

**3.5**

No customers found with the given rating


**Sample INPUT & OUTPUT 6:**

Enter the number of customers:

**3**

**1,John,9876543210,12-12-1990,5000,25000,12-12-2012,3**

**2,James,9876543201,12-12-1990,6000,35000,12-12-2013,4**
**3,Parker,9567843201,14-09-1987,6000,35000,12-12-2013,4** Enter the search type:

1.By name

2.By birth date

3.By rating

**2**

Enter the birth date of the customer to be searched:

**10-10-1998**

No customers found with the given birth date