

# Assignment #22

## Customer Table Booking - 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 the ContactBO 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 given birth 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 given rating 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