**Question 1:**

Let’s start off by creating two Mail objects and check whether they are equal.

1. Create a Mail Class with the following attributes:

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| id | Long |
| to | String |
| from | String |
| subject | String |
| content | String |
| receivedDate | java.util.Date |
| size | Double |

1. Mark all the attributes as private
2. Create / Generate appropriate Getters & Setters
3. Add a default constructor and a parameterized constructor to take in all attributes in the given order: Mail(Long id, String to, String from, String subject, String content, Date receivedDate,Double size)
4. When the “mail” object is printed, it should display the following details: **[Override the toString method]**  
   Print format:  
   Id:"id"  
   To:"to"  
   From:"from"  
   Subject:"subject"  
   Content:"content"  
   Received Date:"receivedDate"  
   Size:"size"
5. Two emails are considered same if they have the same to address, from address, and subject. Implement the logic in the appropriate function. (Case – Insensitive) **[Override the equals method]**  
     
   The input format consists of mail details separated by comma in the below order,  
   (**id,to, from,subject,content,receivedDate,size**)

The Input to your program would be details of two emails, you need to display their details as given in "5th point(refer above)" and compare the two emails and display if the Mails are same or different.  
  
**Note:** There is an empty line between display statements. Print the empty lines in main function.  
              Display one digit after the decimal point for Double datatype.  
  
**Sample INPUT & OUTPUT 1:**  
  
Enter mail 1 detail:  
**1001,meyyappan@gmail.com,satish@gmail.com,Master Copy,Attached doc,05-05-2017,10.0**  
Enter mail 2 detail:  
**1001,meyyappan@gmail.com,satish@gmail.com,Master Copy,Attached doc,05-05-2017,10.0**  
  
Mail 1:  
Id:1001  
To:meyyappan@gmail.com  
From:satish@gmail.com  
Subject:Master Copy  
Content:Attached doc  
ReceivedDate:05-05-2017  
Size:10.0  
  
Mail 2:  
Id:1001  
To:meyyappan@gmail.com  
From:satish@gmail.com  
Subject:Master Copy  
Content:Attached doc  
ReceivedDate:05-05-2017  
Size:10.0  
  
Mail 1 is same as Mail 2  
  
  
**Sample INPUT & OUTPUT 2:**  
  
Enter mail 1 detail:  
**1001,meyyappan@gmail.com,satish@gmail.com,Master Copy,Attached doc,05-05-2017,10.0**  
Enter mail 2 detail:  
**1002,satish@gmail.com,meyyappan@gmail.com,Master Copy,Attached doc,05-05-2017,10.0**  
  
Mail 1:  
Id:1001  
To:meyyappan@gmail.com  
From:satish@gmail.com  
Subject:Master Copy  
Content:Attached doc  
ReceivedDate:05-05-2017  
Size:10.0  
  
Mail 2:  
Id:1002  
To:satish@gmail.com  
From:meyyappan@gmail.com  
Subject:Master Copy  
Content:Attached doc  
ReceivedDate:05-05-2017  
Size:10.0  
  
Mail 1 and Mail 2 are different

**Question 2:**

Let’s start off by creating two Player objects and check whether they are equal.

1. Create a Player Class with the following attributes:

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| name | String |
| dateOfBirth | java.util.Date |
| skill | String |
| numberOfMatches | Integer |
| runs | Integer |
| wickets | Integer |
| nationality | String |
| powerRating | Double |

1. Mark all the attributes as private
2. Create / Generate appropriate Getters & Setters
3. Add a default constructor and a parameterized constructor to take in all attributes in the given order:  
   **Player(String name , Date dateOfBirth , String skill , Integer numberOfMatches , Integer runs , Integer wickets , String nationality , Double powerRating)**
4. When the “player” object is printed, it should display the following details: **[Override the toString method]**  
   Print format:  
   Name:"name"  
   Date of Birth:"dateOfBirth"  
   Skill:"skill"  
   Number of Matches:"numberOfMatches"  
   Runs:"runs"  
   Wickets:"wickets"  
   Nationality:"nationality"  
   PowerRating:"powerRating"
5. Two players are considered same if they have the same name, skill, and nationality. Implement the logic in the appropriate function. (Case – Insensitive) **[Override the equals method]**  
     
   The input format consists of mail details separated by comma in the below order,  
   (**name,dateOfBirth,skill,numberOfMatches,runs,wickets,nationality,powerRating**)

The Input to your program would be details of two players, you need to display their details as given in "5th point(refer above)" and compare the two players and display if the Players are same or different.  
  
**Note:** There is an empty line between display statements. Print the empty lines in the main function.  
              Display one digit after the decimal point for Double datatype.  
  
**Sample INPUT & OUTPUT 1:**  
  
Enter player 1 detail:  
**MSD,07-07-1981,WK&BAT,300,10000,2,Indian,4.9**  
Enter player 2 detail:  
**MSD,07-07-1981,WK&BAT,300,10000,2,Indian,4.9**  
  
Player 1:  
Name:MSD  
Date of Birth:07-07-1981  
Skill:WK&BAT  
Number of Matches:300  
Runs:10000  
Wickets:2  
Nationality:Indian  
Power Rating:4.9  
  
Player 2:  
Name:MSD  
Date of Birth:07-07-1981  
Skill:WK&BAT  
Number of Matches:300  
Runs:10000  
Wickets:2  
Nationality:Indian  
Power Rating:4.9  
  
Player 1 is same as Player 2  
  
**Sample INPUT & OUTPUT 2:**  
  
Enter player 1 detail:  
**MSD,07-07-1981,WK&BAT,300,10000,2,Indian,4.9**  
Enter player 2 detail:  
**ABD,17-02-1984,WK&BAT,300,10000,3,South African,4.9**  
  
Player 1:  
Name:MSD  
Date of Birth:07-07-1981  
Skill:WK&BAT  
Number of Matches:300  
Runs:10000  
Wickets:2  
Nationality:Indian  
Power Rating:4.9  
  
Player 2:  
Name:ABD  
Date of Birth:17-02-1984  
Skill:WK&BAT  
Number of Matches:300  
Runs:10000  
Wickets:3  
Nationality:South African  
Power Rating:4.9  
  
Player 1 and Player 2 are different

**Question 3:**

Create a class Hotel with the following private fields Field Name Data Type id long name String city String rating int estdDate Date Include appropriate getters and setters for the private fields.

Include a default constructor along with a 5-argument constructor. Override the toString() method to display as given in Sample Output. If both the hotels are in the same city and have similar rating, print ‘Another hotel of similar type exists’ Else print ‘One of its type’. All inputs are case insensitive. Override equals() and hashCode() method.

Create a Main class for input and output operations.

Sample Input

Hotel 1

Id

101

Name

Taj

City

Mumbai

Rating

5 star

Since [dd-MM-yyyy]

16-05-1980

Hotel 2

Id

115

Name

Hyatt Regency

City

Mumbai

Rating

5 star

Since [dd-MM-yyyy]

16-05-1986

Sample Output

Details of Hotel 1

Hotel Taj, City-Mumbai, 5 star rating

Details of Hotel 2

Hotel Hyatt Regency, City-Mumbai, 5 star rating

Another hotel of similar type exists