

Java Assessment ReTest 31-Aug-2

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Passenger Details

Passenger Details

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The Railways Department wants to maintain a list of passenger details. Each passenger will have the following information:

Passenger Name

Passenger Gender

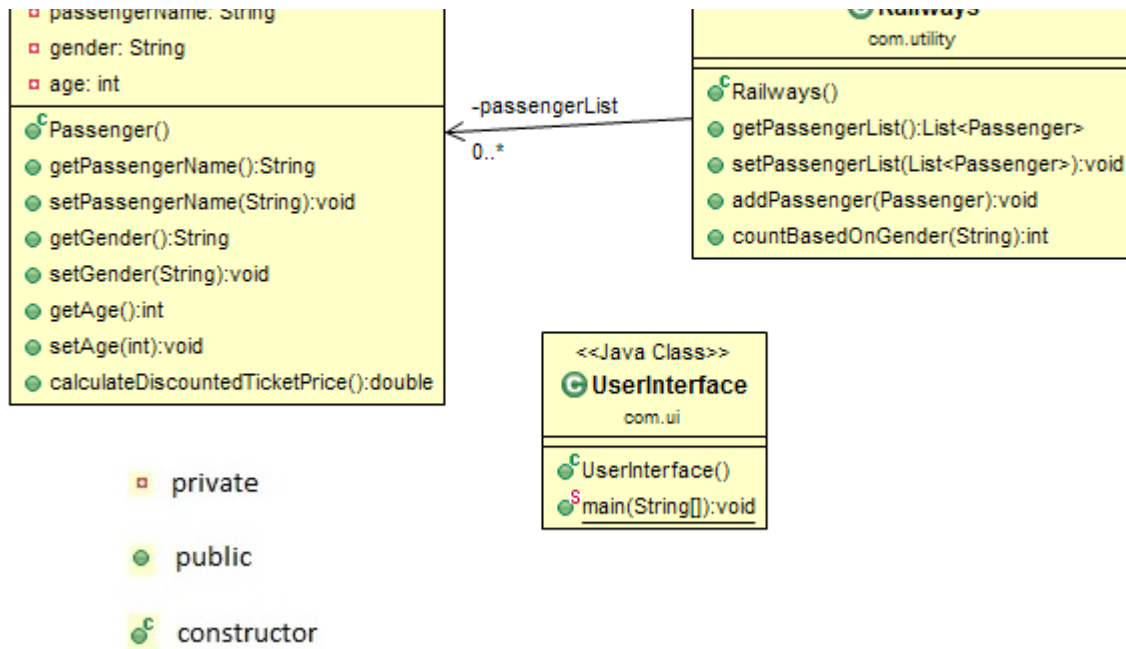
Passenger Age



Railways have decided to give special discount for all Kids under 10 (0-9). Assume the cost of TicketPrice is fixed as Rs:100/-. Write a Java application to do the above task.

Consider the class given below:

In the Passenger class include the given attributes and methods with the access specifiers as specified in the class diagram.



The setter and getter methods are used to store and retrieve the value.

The **calculateDiscountedTicketPrice** method should calculate the ticket price based on the age and return the amount. If the passenger is an adult, then the original ticket price (ie if the age of the passenger is 10 and above) should be returned. The discount is fixed as 10%

For example: If the age of the passenger is 8, then 10% of 100 is 10, so 100-10 will be 90. So this method should return the value as 90.

If the age of the passenger is 10, then 100 should be returned (No discount ,actual ticket price of 100 should be returned)

The **addPassenger** method of Railways class accepts Passenger object as argument and adds it to the passengerList.

The **countBasedOnGender** method returns the total number of passengers (int) for the given gender. The method accepts "gender"(String) as argument

Note: The attribute/method/class names should be specified correctly as given in the class diagram.

Sample Input and Output:

Enter the number of passengers

3

Enter the passenger name

John

Enter the passenger age

10

Enter the passenger name

Rose

Enter the passenger gender

F

Enter the passenger age

8

Enter the passenger name

Tom

Enter the passenger gender

M

Enter the passenger age

19

John 100.0

Rose 90.0

Tom 100.0

Enter the gender to be searched

M

2



Requested files

PassengerDetails/src/com/bean/Passenger.java

```
5  private String passengerName;
6  private String gender;
7  private int age;
8  public String getPassengerName() {
9      return passengerName;
10 }
11 public void setPassengerName(String passengerName) {
12     this.passengerName = passengerName;
13 }
14 public String getGender() {
15     return gender;
16 }
17 public void setGender(String gender) {
18     this.gender = gender;
19 }
20 public int getAge() {
21     return age;
22 }
23 public void setAge(int age) {
24     this.age = age;
25 }
26
27 public double calculateDiscountedTicketPrice()
28 {
29     return 0.0;
30 }
31
32 }
33
```

PassengerDetails/src/com/ui/UserInterface.java

```
1  package com.ui;
2  import com.bean.*;
3  import com.utility.*;
4  import java.util.*;
5  public class UserInterface {
6      public static void main(String[] args)
7      {
8          //Fill the code
9      }
10
11
12 }
13
```



PassengerDetails/src/com/utility/Railways.java



```
5 public class Railways {  
6  
7     private List<Passenger> passengerList=new ArrayList<Passenger>();  
8  
9     public List<Passenger> getPassengerList() {  
10         return passengerList;  
11     }  
12  
13     public void setPassengerList(List<Passenger> passengerList) {  
14         this.passengerList = passengerList;  
15     }  
16  
17     //This method should add the passenger in to the passengerList  
18     public void addPassenger(Passenger passenger)  
19     {  
20  
21     }  
22  
23     //This method should return the total number of passengers  
24     //for the given gender  
25     public int countBasedOnGender(String gender)  
26     {  
27         return 0;  
28     }  
29  
30 }  
31
```

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