```
/*
NAME :
CLASS:- FY BSC IT SEM 2
DIVISION:- B
TEACHER:- Rupal Mam
SUBJECT:- JAVA
ENROLLMENT NO:-
AIM :- INTERFACE
ASSIGNMENT NO:- 7
PC NO:-
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*/


import java.util.*;

interface Trans_company
{
    void getData();
    void displayData();
    void changeRating();

}

interface Cabs extends Trans_company
{
    void getData();
    void displayData();

}

interface Rides
{
    void getData();
    void calCharge();
//    void calTotalKm();
}

class Outstation implements Cabs,Rides
{
    Scanner sc=new Scanner(System.in);
    String C_name,C_type,cab_name,Cus_name,Ride_from,Ride_to;
    int cab_no,distance,charge;
    double rating;

    public void getData()
    {

        System.out.println("Enter the name of the company :- ");
        C_name=sc.nextLine();

        System.out.println("Enter the type of the company :- ");
        C_type=sc.nextLine();

        System.out.println("Enter the rating of the company :- ");
        rating=sc.nextDouble();

        System.out.println("Enter Cab name :- ");
        sc.nextLine();
        cab_name=sc.nextLine();
```

```
        System.out.println("Enter Cab number :- ");
        cab_no=sc.nextInt();

        System.out.println("Enter the name of the customer :- ");
        sc.nextLine();
        Cus_name=sc.nextLine();

        System.out.println("Enter the ride started from :- ");
        Ride_from =sc.nextLine();

        System.out.println("Enter the ride to :- ");
        Ride_to=sc.nextLine();

        System.out.println("Enter the distance of the ride :- ");
        distance=sc.nextInt();

        System.out.println("");
    }


    public void changeRating()
    {
        System.out.println("Enter rating of the company :- ");
        rating=sc.nextDouble();
    }

    public void calCharge()
    {
        if(distance<100)
        {
            charge=(40*distance);
        }

        else if(distance>100 || distance<200)
        {
            charge=(50*distance);
        }

        else if(distance>200)
        {
            charge=(70*distance);
        }
    }

    public void displayData()
    {
        System.out.println(C_name+"      \t   "+cab_name+"
\t"+Cus_name+"    \t   "+Ride_from+"    \t   "+Ride_to+"\t
"+charge+"\t   "+rating);
        System.out.println("");
    }

}

class Cancelled_rides implements Rides
{
    Scanner sc=new Scanner(System.in);
    String can_reason,can_date,can_name;
    int can_charge;
```

```
    public void getData()
    {
        System.out.println("Enter Customer Name :- ");
        can_name=sc.nextLine();

        System.out.println("Enter the reason of cancellation :- ");
        can_reason=sc.nextLine();

        System.out.println("Enter the date of the cancellation :- ");
        can_date=sc.nextLine();
        //System.out.println("");
    }

    public void calCharge()
    {
        System.out.println("Enter the charges of cancellation :- ");
        can_charge=sc.nextInt();
        System.out.println("");

    }

    public void displayData()
    {
//
System.out.println(C_name+"\t"+cab_name+"\t"+Cus_name+"\t"+Ride_from+"\t"
+Ride_to+"\t"+charge+"\t"+rating);
        System.out.println(can_name+"   \t         "+can_date+"    \t
"+can_reason+"    \t          "+can_charge);
        System.out.println("");
    }

}

public class Interface1
{

    public static void main(String[] args)
    {
        Outstation o1[]=new Outstation[1];
        Scanner sc=new Scanner(System.in);
        char ch;

        for(int i=0;i<o1.length;i++)
        {
            o1[i]=new Outstation();
            o1[i].getData();
            System.out.println("Do You Want To Change Rating :y/n");
            ch=sc.next().charAt(0);
            if(ch=='y'||ch=='Y')
            {
                o1[i].changeRating();
            }
            o1[i].calCharge();
        }


System.out.println("Company_name\tCab_name\tCustomer_name\tRide_from\tRid
e_to\t   Charges\tRating");
        for(Outstation o:o1)
```

```
        {
            o.displayData();
        }

        System.out.println("                  CANCELLED RIDES
");
        System.out.println("");


        Cancelled_rides c[]=new Cancelled_rides[1];
        for(int i=0;i<c.length;i++)
        {
            c[i]=new Cancelled_rides();
            c[i].getData();
            c[i].calCharge();
        }

System.out.println("Customer_name\tCancelled_date\tCancelled_reason\tCanc
ellation_charges");
        for(Cancelled_rides c1:c)
        {
            c1.displayData();
        }

    }

}
```