9/12/2016 Homework Turnin

Homework Turnin

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Section: 6G

Course: TJHSST APCS 2016–17

Assignment: 01-02

Receipt ID: 8c2d41e321f047eb49b06163441697b2

Turnin Successful!

The following file(s) were received:

```
SmartCard_Driver.java
                                               (2649 bytes)
 //name:
              date:
import java.text.DecimalFormat;
public class SmartCard_Driver
   public static void main(String[] args)
      Station downtown = new Station("Downtown", 1);
Station center = new Station("Center City", 1);
Station uptown = new Station("Uptown", 2);
Station suburbia = new Station("Suburb", 4);
       SmartCard jimmy = new SmartCard(20.00); //bought with $20.00
       jimmy.board(center);
                                                     //boarded in zone 1
       jimmy.disembark(suburbia);
                                                     //disembark in zone 4
       jimmy.disembark(uptown);
                                                     //disembark without having boarded
       //lots more test cases!
class SmartCard
   double balance;
   int zone;
   boolean boarded;
   String city;
   public SmartCard()
       balance = 0.0;
   public SmartCard(double bal)
       balance = bal;
   public void addMoney(double money)
       balance+=money;
   public double getBalance()
      return balance;
   public boolean isBoarded()
      return boarded;
   public void board(Station s)
       if(boarded)
```

```
System.out.println("Error, already boarded");
         System.exit(0);
      else if(balance<0.5)</pre>
         System.out.println("Error, balance is too low");
         System.exit(0);
      zone = s.getZone();
      city =s.getName();
      boarded = true;
      System.out.println("Boarded at: " + city);
   public double cost(Station s)
      if(boarded==false)
         System.out.println("Error, you do not have a starting destination");
         System.exit(0);
      return Math.abs(s.getZone()-zone)*0.75+0.5;
   public void disembark(Station s)
      if(boarded==false)
         System.out.println("Error, not previously boarded");
         System.exit(0);
      balance = balance - cost(s);
System.out.println("From " + city + " to " + s.getName() + " costs $" + cost(s)+ ".");
System.out.println("Balance: $" + balance);
      boarded = false;
class Station
   String name;
   int zone;
   public Station()
      name = "NO NAME";
      zone = 0;
   public Station(String nm, int zn)
      name = nm;
      zone = zn;
   public String getName()
      return name;
   public int getZone()
      return zone;
   public void setName(String nm)
      name = nm;
   public void setZone(int zn)
      zone = zn;
   public String toString()
      return name + ", Zone " + zone;
}
```

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