OrderCost.java 4/29/2018

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* File:
             OrderCost.java
* Author:
             Dan Gerstl
* Date:
             04/28/2018
* Purpose:
             Project 1
* Description: Object for calculating and holding cost of the order
* Comment:
             NA
*******************
public class OrderCost extends OrderBoxes
    /*** Class Constants ***/
    private final double DEFAULT SUBTOTAL
    private final double DEFAULT ORDER TOTAL = 0.0;
    /*** Local Variables ***/
    private double bagsCost
                                = 0.0;
    private double largeBoxesCost = 0.0;
    private double mediumBoxesCost = 0.0;
    private double smallBoxesCost = 0.0;
                                = 0.0;
    private double orderTotal
    /*** Constructors ***/
    public OrderCost(int bagsOrdered)
        super (bagsOrdered);
        this.setBagsCost(DEFAULT SUBTOTAL);
        this.setLargeBoxesCost(DEFAULT SUBTOTAL);
        this.setMediumBoxesCost (DEFAULT SUBTOTAL);
        this.setSmallBoxesCost(DEFAULT SUBTOTAL);
        this.orderTotal = DEFAULT ORDER TOTAL;
    /*** Class Methods - Transformers/Mutators ***/
    private void setBagsCost(double total)
        if (total >= 0.0)
           this.bagsCost = total;
        else
          this.bagsCost = DEFAULT SUBTOTAL;
    private void setLargeBoxesCost(double total)
        if (total >= 0.0)
          this.largeBoxesCost = total;
        else
          this.largeBoxesCost = DEFAULT SUBTOTAL;
    private void setMediumBoxesCost(double total)
        if (total \geq 0.0)
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this.mediumBoxesCost = total;
    else
       this.mediumBoxesCost = DEFAULT SUBTOTAL;
}
private void setSmallBoxesCost(double total)
    if (total >= 0.0)
       this.smallBoxesCost = total;
    else
       this.smallBoxesCost = DEFAULT SUBTOTAL;
private double calculateSubtotal(int item, double cost)
    /*** Local Variables ***/
    double subtotal = 0.0;
    subtotal = item * cost;
   return subtotal;
}
public void calculateTotal()
    /*** Local Constants ***/
    final double BAG COST
    final double LARGE BOX COST = 1.80;
    final double MEDIUM BOX COST = 1.00;
    final double SMALL \overline{B}OX \overline{C}OST = 0.60;
    /*** Calculate Boxes ***/
    this.calculateBoxesNeeded();
    /*** Calculate Subtotals ***/
    this.setBagsCost(calculateSubtotal(this.getBagsOrdered(),
                                        BAG COST));
    this.setLargeBoxesCost(calculateSubtotal(this.getLargeBoxes(),
                                              LARGE BOX COST));
    this.setMediumBoxesCost(calculateSubtotal(this.getMediumBoxes(),
                                               MEDIUM BOX COST));
    this.setSmallBoxesCost(calculateSubtotal(this.getSmallBoxes(),
                                              SMALL BOX COST));
    /*** Calculate Total ***/
    this.orderTotal = this.bagsCost + this.largeBoxesCost +
                      this.mediumBoxesCost + this.smallBoxesCost;
/*** Class Methods - Accessors ***/
public double getBagsCost()
    return this.bagsCost;
public double getLargeBoxesCost()
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{
   return this.largeBoxesCost;
public double getMediumBoxesCost()
    return this.mediumBoxesCost;
public double getSmallBoxesCost()
    return this.smallBoxesCost;
public double getOrderTotal()
   return this.orderTotal;
@Override
public String toString()
   + " " +
                                                           + " " +
                                                           + " " +
                                                           + " " +
          "Bags cost: "
                               + this.getBagsCost()
          "Large boxes cost: " + this.getLargeBoxesCost() + " " +
          "Medium boxes cost: " + this.getMediumBoxesCost() + " " +
          "Small boxes cost: " + this.getSmallBoxesCost() + " " + this.getOrderTotal() + " ";
}
/*** Application ***/
public static void main(String[] args)
    OrderCost tester = new OrderCost(10);
    System.out.println(tester.toString());
    System.out.println("\n Calculating order total...\n");
    tester.calculateTotal();
   System.out.println(tester.toString());
}
```

}