CC8

Hunger Eats

import java.util.Scanner;

public class UserInterface\_CC8

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

Order order=new Order();

System.out.println("Enter the number of items");

int noOfItems=sc.nextInt();

System.out.println("Enter the item details");

for(int i=0;i<noOfItems;i++)

{

FoodProduct fp=new FoodProduct();

System.out.println("Enter the item id");

fp.setFoodId(sc.nextInt());

System.out.println("Enter the item name");

sc.next();

fp.setFoodName(sc.nextLine());

System.out.println("Enter the cost per unit");

fp.setCostPerUnit(sc.nextDouble());

System.out.println("Enter the quantity");

fp.setQuantity(sc.nextInt());

order.addToCart(fp);

}

System.out.println("Enter the bank name to avail offer");

String bankName=sc.next();

order.findDiscount(bankName);

double result=order.calculateTotalBill();

System.out.println("Calculated Bill Amount:"+result);

}

}

public class FoodProduct

{

private int foodId;

private String foodName;

private double costPerUnit;

private int quantity;

public int getFoodId() {

return foodId;

}

public void setFoodId(int foodId) {

this.foodId = foodId;

}

public String getFoodName() {

return foodName;

}

public void setFoodName(String foodName) {

this.foodName = foodName;

}

public double getCostPerUnit() {

return costPerUnit;

}

public void setCostPerUnit(double costPerUnit) {

this.costPerUnit = costPerUnit;

}

public int getQuantity() {

return quantity;

}

public void setQuantity(int quantity) {

this.quantity = quantity;

}

}

import java.util.ArrayList;

import java.util.Iterator;

import java.util.List;

public class Order

{

private double discountPercentage;

private List<FoodProduct> foodList=new ArrayList<FoodProduct>();

public double getDiscountPercentage() {

return discountPercentage;

}

public void setDiscountPercentage(double discountPercentage) {

this.discountPercentage = discountPercentage;

}

public List<FoodProduct> getFoodList() {

return foodList;

}

public void setFoodList(List<FoodProduct> foodList) {

this.foodList = foodList;

}

//This method should set the discount percentage based on bank passed as argument

public void findDiscount(String bankName)

{

if(bankName.equalsIgnoreCase("HDFC"))

discountPercentage=15;

else if(bankName.equalsIgnoreCase("ICICI"))

discountPercentage=25;

else if(bankName.equalsIgnoreCase("CUB"))

discountPercentage=30;

else if(bankName.equalsIgnoreCase("SBI"))

discountPercentage=50;

else

discountPercentage=0;

}

// This method should add the FoodProduct Object into Food List

public void addToCart(FoodProduct foodObject)

{

foodList.add(foodObject);

}

//method should return the total bill amount after discount

// based on the bank name

public double calculateTotalBill()

{

Iterator itr=foodList.iterator();

double sum=0;

while(itr.hasNext())

{

FoodProduct fprod=(FoodProduct)itr.next();

sum=sum+(fprod.getCostPerUnit()\*fprod.getQuantity());

}

double totalBill=sum-(sum\*discountPercentage/100);

//change the return value as per the requirement

return totalBill;

}

}