import java.util.Scanner; import java.util.stream.Stream; import java.util.\*; public class Main { public static void main(String[] args) { Scanner sc = new Scanner(System.in); int num = 0; ManagementUtility m=new ManagementUtility(); while(num != 3){ System.out.println("Select an option:\n1.Add Vegetable to Basket\n2.Calculate Bill\n3.Exit"); num = sc.nextInt(); if(num == 1){ VegetableBasket vege=new VegetableBasket(); System.out.println("Enter the vegetable name"); String name=sc.next(); System.out.println("Enter weight in Kgs"); int weight = sc.nextInt(); System.out.println("Enter price per Kg"); int price = sc.nextInt(); vege.setVegetableName(name); vege.setWeightInKgs(weight); vege.setPricePerKg(price); m.addToBasket(vege); }else if(num==2){ List<VegetableBasket>vegeBasketList =m.getVegetableBasketList(); if(vegeBasketList.size()==0) { System.out.println("Customer basket is empty. Please add vegetables."); }else{ Stream<VegetableBasket>vegetableBasketStream = vegeBasketList.stream(); int amount = m.calculateBill(vegetableBasketStream); System.out.println("The estimated bill amount is Rs "+amount); } } }System.out.println("Thank you for using the application."); } }

//Don't change the skeleton

public class VegetableBasket { private String vegetableName; private int weightInKgs; private int pricePerKg; public String getVegetableName() { return vegetableName; }public void setVegetableName(String vegetableName) { this.vegetableName = vegetableName; }public int getWeightInKgs() { return weightInKgs; }public void setWeightInKgs(int weightInKgs) { this.weightInKgs = weightInKgs; }public int getPricePerKg() { return pricePerKg; }public void setPricePerKg(int pricePerKg) { this.pricePerKg = pricePerKg; } }

import java.util.List; import java.util.stream.Stream; import java.util.\*; import java.util.stream.Collectors; import java.util.function.Function; public class ManagementUtility { private List<VegetableBasket> vegetableBasketList = new ArrayList<VegetableBasket>();; public List<VegetableBasket> getVegetableBasketList() { return this.vegetableBasketList; }public void setVegetableBasketList(List<VegetableBasket> vegetableBasketList) { this.vegetableBasketList = vegetableBasketList; }public void addToBasket(VegetableBasket fbObj) { List<VegetableBasket> vge= getVegetableBasketList(); vge.add(fbObj); setVegetableBasketList(vge); }public static int calculateBill(Stream<VegetableBasket> vegetableBasketStream) { Map<Integer, Integer> V = vegetableBasketStream.collect(Collectors.toMap(VegetableBasket-> VegetableBasket.getWeightInKgs(),VegetableBasket -> VegetableBasket.getPricePerKg())); int amount=0; for(Map.Entry<Integer, Integer>entry : V.entrySet()) { amount=amount+(entry.getKey()\*entry.getValue()); }return amount; } }