Assignment No1 Solution

**CS 506**

For Any Solution Just Comment on Website

Same Code Copy

class Product{

private int id , quantity;

private String name;

private float price;

public Product(){

id = 0;

quantity = 0;

name = "";

price = 0;

}

public Product(String name, int quantity, float price)

{

this.name = name;

this.quantity= quantity;

this.price = price;

}

public Product(Product p)

{

p.id= id;

p.quantity = quantity;

p.name = name;

p.price = price;

}

public int getId()

{

return id;

}

public void setId(int id){

this.id= id;

}

public int getQuantity()

{

return quantity;

}

public void setQuantity(int quantity){

this.quantity = quantity;

}

public String getName(){

return name;

}

public void setName(String name){

this.name = name;

}

public float getPrice(){

return price;

}

public void setPrice(float price){

this.price = price;

}

}

2.Cart.Jav

import java.util.ArrayList;

import javax.swing.JOptionPane;

//import a class same

class Cart extends Product{

ArrayList<Product> cartItems;

public Cart(){

cartItems = new ArrayList<>();

}

public Cart(String name , int quantity , float price){

super(name, quantity , price);

}

public Cart(Product p){

super(p);

}

public void addItem(){

int op = 0;

String option = JOptionPane.showInputDialog(null, "Please Enter \n \n "

+ "1 to Add 'Handout(Rs 500.0)'\n "

+ "2 to Add 'Reference Book(Rs 500.0)'\n "

+ "3 to Add 'DVD(Rs 500.0)'\n "

+ "4 to Add 'USB(Rs 2500.0)'\n "

+ "5 to Add 'Done'\n "

, "Add Item(s) in Cart"

, JOptionPane.INFORMATION\_MESSAGE);

if (option.equals("")){

JOptionPane.showMessageDialog(null, "Please Select an Item" , "Error" , JOptionPane.ERROR\_MESSAGE);

addItem();

}

else

{

op = Integer.parseInt(option);

}

int qty = Integer.parseInt(JOptionPane.showInputDialog(null, "Please Enter \n\n "

+ "Please specify the quantity (1- 10) "

, "Quantity"

, JOptionPane.INFORMATION\_MESSAGE));

if (op == 1) {

setPrice(500.0f);

setName("Handout");

}

if (op == 2) {

setPrice(500.0f);

setName("Reference Book");

}

if (op == 3) {

setPrice(500.0f);

setName("DVD");

}

if (op == 4) {

setPrice(2500.0f);

setName("USB");

}

setQuantity(qty);

if (getQuantity() > 10 || getQuantity() < 1) {

JOptionPane.showMessageDialog(null, "Quantity must be between 1- 10 ", "Error", JOptionPane.ERROR\_MESSAGE);

}

else

{

Product p = new Product(getName(), getQuantity(), getPrice());

cartItems.add(p);

JOptionPane.showMessageDialog(null, "Item Added to Cart");

}

}

public void removeItem(String n){

if (cartItems.isEmpty())

{

JOptionPane.showMessageDialog(null, "Cart is empty");

}

else

{

for (int i=0; i<cartItems.size(); i++ ) {

Product p = (Product)cartItems.get(i);

if (n.equals(p.getName())) {

cartItems.remove(i);

JOptionPane.showMessageDialog(null, "Item Removed");

}

}

}

}

public void emptyCart(){

if (cartItems.isEmpty())

{JOptionPane.showMessageDialog(null , "Cart is empty");}

else

{

cartItems.clear();

JOptionPane.showMessageDialog(null, "All items removed successfuly!");

}

}

public void Checkout(){

String str = "";

int items = 0 ;

int iterator = 1;

float itemPrice, total = 0.0f;

int size = cartItems.size();

if (size < 1) {

JOptionPane.showMessageDialog(null, "Add item(s) first ", "Cart is empty", JOptionPane.ERROR\_MESSAGE);

}

else

{

for (Product cartItems : cartItems ) {

Product p = (Product) cartItems;

itemPrice = p.getPrice() \* p.getQuantity();

str += iterator + " . "+ p.getName() + ": Rs"+ p.getPrice() + "x" + p.getQuantity()+

"= Rs"+ itemPrice + " \n";

items += p.getQuantity();

total += p.getPrice() \* p.getQuantity();

iterator ++;

}

str += " \n \n No. of items : "+ items + "- Totla Bill: Rs "+ total;

JOptionPane.showMessageDialog(null, str, "Go To Checkout", JOptionPane.INFORMATION\_MESSAGE);

//please subscribe my channel

}

}

}

3.BookShop. Java

import javax.swing.JOptionPane;

public class BookShop{

static int ch = 0;

public static void main(String Args[]) {

String s= "";

Cart myCart = new Cart();

while(true){

switch(showGUI())

{

case 1:

myCart.addItem();

break;

case 2:

String op= JOptionPane.showInputDialog(null, "Please Enter \n \n "

+ "1 to Remove 'Handout'\n "

+ "2 to Remove 'Reference Book'\n "

+ "3 to Remove 'DVD'\n "

+ "4 to Remove 'USB'\n "

, "Remove an Item"

, JOptionPane.INFORMATION\_MESSAGE);

if (op.equals("1")) {s = "Handout"; }

if (op.equals("2")) {s = "Reference Book"; }

if (op.equals("3")) {s = "DVD"; }

if (op.equals("4")) {s = "USB"; }

myCart.removeItem(s);

break;

case 3:

myCart.Checkout();

break;

case 4:

myCart.emptyCart();

break;

case 5:

developerInfo();

System.exit(0);

}

}

}

//add your id

public static void developerInfo(){

//Enter Student ID

JOptionPane.showMessageDialog(null, "Develper By: Student Name(BCxxxxxx)", "Develper Info",

JOptionPane.INFORMATION\_MESSAGE);

};

public static int showGUI(){

String option = JOptionPane.showInputDialog(null, "Please Enter \n \n "

+ "1 For 'Add Item to Cart'\n "

+ "2 For 'Remove an item from cart '\n "

+ "3 For 'Go To Checkout'\n "

+ "4 For 'Empty Cart'\n "

+ "5 For 'Exit Program'\n "

, "BookShop Cart"

, JOptionPane.INFORMATION\_MESSAGE);

ch= Integer.parseInt(option);

return ch;

}

}

//so run the program

//So run the program Best of luck