# Java Assignment – 2

# Submission by: Simranjot Kaur

# Batch: Fall 2022

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Main.java

package week7;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Scanner;

public class MainClass {

public static void main(String[] args) {

Customer customer;

Items items;

double orderTotal = 0;

String choice = null;

try (Scanner sc = new Scanner(System.***in***)) {

do {

customer = new Customer();

items = new Items();

System.***out***.print("Enter Customer Name: ");

customer.setCustName(sc.nextLine());

while (!AppConstants.***CUST\_TYPE\_RETAIL***.equalsIgnoreCase(customer.getCustType())

&& !AppConstants.***CUST\_TYPE\_WHOLESALE***.equalsIgnoreCase(customer.getCustType())) {

System.***out***.print("Enter the Type of Customer(R/WS): ");

customer.setCustType(sc.nextLine());

if (!AppConstants.***CUST\_TYPE\_RETAIL***.equalsIgnoreCase(customer.getCustType())

&& !AppConstants.***CUST\_TYPE\_WHOLESALE***.equalsIgnoreCase(customer.getCustType())) {

System.***out***.println("Invalid Customer Type. Press Enter to Continue.");

}

}

System.***out***.print("Enter the name of Item purchased: ");

items.setItemName(sc.nextLine());

while (items.getQuantity() <= 0 || items.getQuantity() > 10) {

System.***out***.print("Enter Quantity of Item: ");

items.setQuantity(sc.nextInt());

sc.nextLine();

if (items.getQuantity() <= 0 || items.getQuantity() > 10) {

System.***out***.println("Invalid Quantity. Press Enter to Continue");

}

}

while (items.getUnitPrice() <= 0) {

System.***out***.print("Enter the Unit Price of Item: $");

items.setUnitPrice(sc.nextDouble());

sc.nextLine();

if (items.getUnitPrice() <= 0) {

System.***out***.println("Invalid Quantity. Press Enter to Continue");

}

}

if (AppConstants.***CUST\_TYPE\_RETAIL***.equalsIgnoreCase(customer.getCustType())) {

orderTotal = items.getOrderAmount();

if (orderTotal >= 1000) {

customer.setCustDisc(0.10);

}

} else if (AppConstants.***CUST\_TYPE\_WHOLESALE***.equalsIgnoreCase(customer.getCustType())) {

orderTotal = items.getOrderAmount();

if (orderTotal < 500) {

customer.setCustDisc(0.10);

} else if (orderTotal >= 500 && orderTotal <= 1000) {

customer.setCustDisc(0.20);

} else if (orderTotal > 1000) {

customer.setCustDisc(0.30);

}

}

MainClass.*displayBill*(customer, items);

System.***out***.print("Do you have more orders to process(Y/N): ");

choice = sc.nextLine();

} while ("Y".equalsIgnoreCase(choice));

}

}

public static double calcNetPayable(double orderAmount, double tax, double discPerc) {

return ((orderAmount + tax) - (orderAmount \* discPerc));

}

public static void displayBill(Customer c, Items i) {

System.***out***.println("-------------------INVOICE---------------------");

System.***out***.println("Store Name and Location: " + AppConstants.***STORE\_NAME\_LOCATION***);

System.***out***.println(

"Date of invoice: " + new SimpleDateFormat("dd-MM-yyyy").format(Calendar.*getInstance*().getTime()));

System.***out***.println("Customer Name: " + c.getCustName());

System.***out***.println("Item Name: " + i.getItemName());

System.***out***.printf("Total Order Amount: $%.2f\n", i.getOrderAmount());

System.***out***.printf("Tax to be Paid: $%.2f\n", i.getTaxOnItems());

System.***out***.printf("Total Discount: $%.2f\n", i.getOrderAmount() \* c.getCustDisc());

System.***out***.printf("Net Payable Amount: $%.2f\n",

MainClass.*calcNetPayable*(i.getOrderAmount(), i.getTaxOnItems(), c.getCustDisc()));

System.***out***.println("------------------------------------------------");

System.***out***.println("Assignment Submitted by: Simranjot Kaur");

System.***out***.println("------------------------------------------------");

}

}

AppConstants.java

package week7;

public class AppConstants {

public static final double ***TAX*** = 0.13;

public static final String ***CUST\_TYPE\_RETAIL*** = "R";

public static final String ***CUST\_TYPE\_WHOLESALE*** = "WS";

public static final String ***STORE\_NAME\_LOCATION*** = "Humber Store, GTA";

Items.java

package week7;

public class Items {

String itemName;

int quantity;

double unitPrice;

Items() {

itemName = null;

quantity = 0;

unitPrice = 0;

}

public String getItemName() {

return itemName;

}

public void setItemName(String itemName) {

this.itemName = itemName;

}

public int getQuantity() {

return quantity;

}

public void setQuantity(int quantity) {

this.quantity = quantity;

}

public double getUnitPrice() {

return unitPrice;

}

public void setUnitPrice(double unitPrice) {

this.unitPrice = unitPrice;

}

public double getOrderAmount() {

return this.getUnitPrice() \* this.getQuantity();

}

public double getTaxOnItems() {

return this.getOrderAmount() \* AppConstants.***TAX***;

}

}

}

Customer.java

package week7;

public class Customer {

String custName;

String custType;

double custDisc;

Customer() {

custName = "";

custType = "";

custDisc = 0;

}

public String getCustName() {

return custName;

}

public void setCustName(String custName) {

this.custName = custName;

}

public String getCustType() {

return custType;

}

public void setCustType(String custType) {

this.custType = custType;

}

public double getCustDisc() {

return custDisc;

}

public void setCustDisc(double custDisc) {

this.custDisc = custDisc;

}

}

A screenshot of a computer

Description automatically generated **OUTPUTS**

Graphical user interface, text

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Text

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