import java.util.Scanner;

import java.util.ArrayList;

class Medicine {

    private String name;

    private double price;

    private double taxPercent;

    private double discountPercent;

    public Medicine(String name, double price, double taxPercent, double discountPercent) {

        this.name = name;

        this.price = price;

        this.taxPercent = taxPercent;

        this.discountPercent = discountPercent;

    }

    public double calculateTotalPrice() {

        double totalPrice = price + (price \* taxPercent / 100);

        totalPrice -= totalPrice \* discountPercent / 100;

        return totalPrice;

    }

    @Override

    public String toString() {

        return name + " - Price: $" + price + " (Tax: " + taxPercent + "%, Discount: " + discountPercent + "%)";

    }

}

class MedicalStore extends MedicalStoreManagementSystem {

    private String name;

    private ArrayList<Medicine> medicines;

    public MedicalStore(String name) {

        this.name = name;

        this.medicines = new ArrayList<>();

    }

    public void addMedicine(Medicine medicine) {

        medicines.add(medicine);

    }

    public void displayMedicines() {

        System.out.println("\n===== Available Medicines in " + name + " =====");

        for (Medicine med : medicines) {

            System.out.println(med);

        }

    }

    public void addMedicineFromInput(Scanner scanner) {

        System.out.print("Enter medicine name:(with index EX 4 Medicine) ");

        String name = scanner.next();

        System.out.print("Enter price: $");

        double price = scanner.nextDouble();

        System.out.print("Enter tax percentage: ");

        double tax = scanner.nextDouble();

        System.out.print("Enter discount percentage: ");

        double discount = scanner.nextDouble();

        Medicine medicine = new Medicine(name, price, tax, discount);

        addMedicine(medicine);

        System.out.println("Medicine added successfully.");

    }

    public void calculateBill(Scanner scanner) {

        displayMedicines();

        System.out.print("Enter medicine index to purchase: ");

        int index = scanner.nextInt();

        if (index >= 0 && index < medicines.size()) {

            Medicine selectedMedicine = medicines.get(index);

            System.out.print("Enter quantity: ");

            int quantity = scanner.nextInt();

            double totalBill = selectedMedicine.calculateTotalPrice() \* quantity;

            System.out.println("Total Bill:in $" + totalBill);

            System.out.println("Total Bill:in RS" + (totalBill - 82 / 2.3));

        } else {

            System.out.println("Invalid medicine index.");

        }

    }

}

public class MedicalStoreManagementSystem {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        MedicalStore store = new MedicalStore("your\_help");

        // Add some initial medicines to the store

        store.addMedicine(new Medicine("1- Paracetamol", 10.50, 5, 12)); // Name, Price, Tax (%), Discount (%)

        store.addMedicine(new Medicine("2- Aspirin", 15.75, 7, 10));

        store.addMedicine(new Medicine("3- Abridone Tablets", 12.40, 6, 14)); // Name, Price, Tax (%), Discount (%)

        store.addMedicine(new Medicine("4- oletsIP 250mg", 15.75, 10, 10));

        store.addMedicine(new Medicine("5- Breathein", 48.50, 4, 8)); // Name, Price, Tax (%), Discount (%)

        store.addMedicine(new Medicine("6- Vitamin B", 34.75, 7, 10));

        store.addMedicine(new Medicine("7- Vitamin C", 38.75, 14, 14));

        store.addMedicine(new Medicine("8- Vitamin D3", 23.88, 14, 14));

        store.addMedicine(new Medicine("9- Omee Alke", 38.75, 12, 13));

        int choice;

        do {

            System.out.println("\n===== Medical Store Management System =====");

            System.out.println("1. Display Medicines");

            System.out.println("2. Add Medicine");

            System.out.println("3. Calculate Bill");

            System.out.println("4. Exit");

            System.out.print("Enter your choice: ");

            choice = scanner.nextInt();

            switch (choice) {

                case 1:

                    store.displayMedicines();

                    break;

                case 2:

                    store.addMedicineFromInput(scanner);

                    break;

                case 3:

                    store.calculateBill(scanner);

                    break;

                case 4:

                    System.out.println("Exiting... Thank you!");

                    break;

                default:

                    System.out.println("Invalid choice. Please try again.");

            }

        } while (choice != 4);

        scanner.close();

    }

}