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import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        //declarations.
        String shipto_name, shipto_address;

        System.out.print("Enter recipients name : ");
        shipto_name = scanner.nextLine();
        System.out.print("Enter recipients address : ");
        shipto_address = scanner.nextLine();

        // Bill To Information
        System.out.println("Enter Bill To Information:");
        System.out.print("Company Name: ");
        String billCompany = scanner.nextLine();
        System.out.print("Address Line 1: ");
        String billAddress1 = scanner.nextLine();
        System.out.print("Address Line 2: ");
        String billAddress2 = scanner.nextLine();
        System.out.print("GSTIN: ");
        String billGSTIN = scanner.nextLine();
        System.out.print("Contact: ");
        String billContact = scanner.nextLine();
        System.out.print("Email: ");
        String billEmail = scanner.nextLine();

        // Ship To Information
        System.out.println("\nEnter Ship To Information:");
        System.out.print("Company Name: ");
        String shipCompany = scanner.nextLine();
        System.out.print("Address Line 1: ");
        String shipAddress1 = scanner.nextLine();
        System.out.print("Address Line 2: ");
        String shipAddress2 = scanner.nextLine();
        System.out.print("GSTIN: ");
        String shipGSTIN = scanner.nextLine();
        System.out.print("Contact: ");
        String shipContact = scanner.nextLine();
        System.out.print("Email: ");
        String shipEmail = scanner.nextLine();

        // Payment Information.
        System.out.println("\nEnter Payment Information:");
        System.out.print("Payment Date: ");
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String paymentDate = scanner.nextLine();
System.out.print("Payment Terms: ");
String paymentTerms = scanner.nextLine();

// Product Information
System.out.println("\nEnter number of products: ");
int numProducts = scanner.nextInt();
scanner.nextLine();

// Variables to store product data
int sNo1, sNo2, sNo3, sNo4, sNo5, sNo6, sNo7;
int prodCode1, prodCode2, prodCode3, prodCode4, prodCode5, prodCode6, prodCode7;
String prodName1, prodName2, prodName3, prodName4, prodName5, prodName6,
prodName7;
int hsnCode1, hsnCode2, hsnCode3, hsnCode4, hsnCode5, hsnCode6, hsnCode7;
int qty1, qty2, qty3, qty4, qty5, qty6, qty7;
String units1, units2, units3, units4, units5, units6, units7;
double rate1, rate2, rate3, rate4, rate5, rate6, rate7;
double tax1, tax2, tax3, tax4, tax5, tax6, tax7;
double amount1, amount2, amount3, amount4, amount5, amount6, amount7;

// Initialize variables
sNo1 = sNo2 = sNo3 = sNo4 = sNo5 = sNo6 = sNo7 = 0;
prodCode1 = prodCode2 = prodCode3 = prodCode4 = prodCode5 = prodCode6 = prodCode7
= 0;
prodName1 = prodName2 = prodName3 = prodName4 = prodName5 = prodName6 = prodName7
= "";
hsnCode1 = hsnCode2 = hsnCode3 = hsnCode4 = hsnCode5 = hsnCode6 = hsnCode7 = 0;
qty1 = qty2 = qty3 = qty4 = qty5 = qty6 = qty7 = 0;
units1 = units2 = units3 = units4 = units5 = units6 = units7 = "";
rate1 = rate2 = rate3 = rate4 = rate5 = rate6 = rate7 = 0.0;
tax1 = tax2 = tax3 = tax4 = tax5 = tax6 = tax7 = 0.0;
amount1 = amount2 = amount3 = amount4 = amount5 = amount6 = amount7 = 0.0;

// Input Product 1
sNo1 = 1;
System.out.println("\nProduct 1:");
System.out.print("Product Code: ");
prodCode1 = scanner.nextInt();
scanner.nextLine();
System.out.print("Product Name: ");
prodName1 = scanner.nextLine();
System.out.print("HSN Code: ");
hsnCode1 = scanner.nextInt();
System.out.print("Quantity: ");
qty1 = scanner.nextInt();
scanner.nextLine();
System.out.print("Units: ");
units1 = scanner.nextLine();

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System.out.print("Rate: ");
rate1 = scanner.nextDouble();
System.out.print("Tax (%): ");
tax1 = scanner.nextDouble();
scanner.nextLine();
amount1 = qty1 * rate1;

// Input Product 2
sNo2 = 2;
System.out.println("\nProduct 2:");
System.out.print("Product Code: ");
prodCode2 = scanner.nextInt();
scanner.nextLine();
System.out.print("Product Name: ");
prodName2 = scanner.nextLine();
System.out.print("HSN Code: ");
hsnCode2 = scanner.nextInt();
System.out.print("Quantity: ");
qty2 = scanner.nextInt();
scanner.nextLine();
System.out.print("Units: ");
units2 = scanner.nextLine();
System.out.print("Rate: ");
rate2 = scanner.nextDouble();
System.out.print("Tax (%): ");
tax2 = scanner.nextDouble();
scanner.nextLine();
amount2 = qty2 * rate2;

// Input Product 3
sNo3 = 3;
System.out.println("\nProduct 3:");
System.out.print("Product Code: ");
prodCode3 = scanner.nextInt();
scanner.nextLine();
System.out.print("Product Name: ");
prodName3 = scanner.nextLine();
System.out.print("HSN Code: ");
hsnCode3 = scanner.nextInt();
System.out.print("Quantity: ");
qty3 = scanner.nextInt();
scanner.nextLine();
System.out.print("Units: ");
units3 = scanner.nextLine();
System.out.print("Rate: ");
rate3 = scanner.nextDouble();
System.out.print("Tax (%): ");
tax3 = scanner.nextDouble();
scanner.nextLine();
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amount3 = qty3 * rate3;

// Input Product 4
sNo4 = 4;
System.out.println("\nProduct 4:");
System.out.print("Product Code: ");
prodCode4 = scanner.nextInt();
scanner.nextLine();
System.out.print("Product Name: ");
prodName4 = scanner.nextLine();
System.out.print("HSN Code: ");
hsnCode4 = scanner.nextInt();
System.out.print("Quantity: ");
qty4 = scanner.nextInt();
scanner.nextLine();
System.out.print("Units: ");
units4 = scanner.nextLine();
System.out.print("Rate: ");
rate4 = scanner.nextDouble();
System.out.print("Tax (%): ");
tax4 = scanner.nextDouble();
scanner.nextLine();
amount4 = qty4 * rate4;

// Input Product 5
sNo5 = 5;
System.out.println("\nProduct 5:");
System.out.print("Product Code: ");
prodCode5 = scanner.nextInt();
scanner.nextLine();
System.out.print("Product Name: ");
prodName5 = scanner.nextLine();
System.out.print("HSN Code: ");
hsnCode5 = scanner.nextInt();
System.out.print("Quantity: ");
qty5 = scanner.nextInt();
scanner.nextLine();
System.out.print("Units: ");
units5 = scanner.nextLine();
System.out.print("Rate: ");
rate5 = scanner.nextDouble();
System.out.print("Tax (%): ");
tax5 = scanner.nextDouble();
scanner.nextLine();
amount5 = qty5 * rate5;

// Input Product 6
sNo6 = 6;
System.out.println("\nProduct 6:");
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System.out.print("Product Code: ");
prodCode6 = scanner.nextInt();
scanner.nextLine();
System.out.print("Product Name: ");
prodName6 = scanner.nextLine();
System.out.print("HSN Code: ");
hsnCode6 = scanner.nextInt();
System.out.print("Quantity: ");
qty6 = scanner.nextInt();
scanner.nextLine();
System.out.print("Units: ");
units6 = scanner.nextLine();
System.out.print("Rate: ");
rate6 = scanner.nextDouble();
System.out.print("Tax (%): ");
tax6 = scanner.nextDouble();
scanner.nextLine();
amount6 = qty6 * rate6;

// Input Product 7
sNo7 = 7;
System.out.println("\nProduct 7:");
System.out.print("Product Code: ");
prodCode7 = scanner.nextInt();
scanner.nextLine();
System.out.print("Product Name: ");
prodName7 = scanner.nextLine();
System.out.print("HSN Code: ");
hsnCode7 = scanner.nextInt();
System.out.print("Quantity: ");
qty7 = scanner.nextInt();
scanner.nextLine();
System.out.print("Units: ");
units7 = scanner.nextLine();
System.out.print("Rate: ");
rate7 = scanner.nextDouble();
System.out.print("Tax (%): ");
tax7 = scanner.nextDouble();
scanner.nextLine();
amount7 = qty7 * rate7;

// Calculate totals
double total = amount1 + amount2 + amount3 + amount4 + amount5 + amount6 +
amount7;
double discountPercentage = 0.6368;
double discountAmount = total * discountPercentage / 100;
double grandTotal = total - discountAmount;

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System.out.println("\n\n=====
=====");
    System.out.println("\t\t\t\t\tSALES INVOICE");

System.out.println("=====
=====");
    System.out.println();
    System.out.println("Bill To:\t\t\t\t\tShip To:");
    System.out.println(billCompany + "\t\t\t\t\t" + shipCompany);
    System.out.println(billAddress1 + "\t\t\t\t\t" + shipAddress1);
    System.out.println(billAddress2 + "\t\t\t\t\t" + shipAddress2);
    System.out.println("GSTIN:" + billGSTIN + "\t\t\t\t\tGSTIN:" + shipGSTIN);
    System.out.println("Contact: " + billContact + "\t\t\t\t\tContact: " +
shipContact);
    System.out.println("Email: " + billEmail + "\t\t\t\t\tEmail: " + shipEmail);
    System.out.println("-----
-----");
    System.out.println("\t\tPayment Date: 7 days form date of delivery\t\t\t\tPayment
Terms: 100% against invoice");
    System.out.println();

System.out.println("=====
=====");
    System.out.println("S.No\tProduct Code\tProduct Name\t\tHSN
code\tQuantity\tUnits\tRate\tTax\tAmount");

System.out.println("=====
=====");
    System.out.println(sNo1 + "\t\t" + prodCode1 + "\t\t" + prodName1 + "\t\t" +
hsnCode1 + "\t\t" + qty1 + "\t\t" + units1 + "\t" + rate1 + "\t" + tax1 + "%\t" +
amount1);
    System.out.println(sNo2 + "\t\t" + prodCode2 + "\t\t" + prodName2 + "\t\t" +
hsnCode2 + "\t\t" + qty2 + "\t\t" + units2 + "\t" + rate2 + "\t" + tax2 + "%\t" +
amount2);
    System.out.println(sNo3 + "\t\t" + prodCode3 + "\t\t" + prodName3 + "\t\t" +
hsnCode3 + "\t\t" + qty3 + "\t\t" + units3 + "\t" + rate3 + "\t" + tax3 + "%\t" +
amount3);
    System.out.println(sNo4 + "\t\t" + prodCode4 + "\t\t" + prodName4 + "\t\t" +
hsnCode4 + "\t\t" + qty4 + "\t\t" + units4 + "\t" + rate4 + "\t" + tax4 + "%\t" +
amount4);
    System.out.println(sNo5 + "\t\t" + prodCode5 + "\t\t" + prodName5 + "\t\t" +
hsnCode5 + "\t\t" + qty5 + "\t\t" + units5 + "\t" + rate5 + "\t" + tax5 + "%\t" +
amount5);
    System.out.println(sNo6 + "\t\t" + prodCode6 + "\t\t" + prodName6 + "\t\t" +
hsnCode6 + "\t\t" + qty6 + "\t\t" + units6 + "\t" + rate6 + "\t" + tax6 + "%\t" +
amount6);
    System.out.println(sNo7 + "\t\t" + prodCode7 + "\t\t" + prodName7 + "\t\t" +
hsnCode7 + "\t\t" + qty7 + "\t\t" + units7 + "\t" + rate7 + "\t" + tax7 + "%\t" +
amount7);

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System.out.println("=====
=====");
    System.out.println();
    System.out.println("\t\t\t\t\t\t\t\t\t\tTotal\t\t" + total);
    System.out.println("\t\t\t\t\t\t\t\t\t\tDiscounts\t" + discountAmount);
    System.out.println("\t\t\t\t\t\t\t\t\t\tGrand total\t" + grandTotal);
    System.out.println();

System.out.println("=====
=====");

    scanner.close();
}
}
```