

```

public class Product{

    private String id;
    private String pname;
    private int qty;
    private double price;
    private double totalPrice;

    // constructor
    Product(String id, String pname, int qty, double price,
double totalPrice) {
        this.id = id;
        this.pname = pname;
        this.qty = qty;
        this.price = price;
        this.totalPrice = totalPrice;
    }

    // getter methods
    public String getId() {
        return id;
    }

    public String getPname() {
        return pname;
    }

    public int getQty() {
        return qty;
    }

    public double getPrice() {
        return price;
    }

    public double getTotalPrice() {
        return totalPrice;
    }

    // displayFormat
    public static void displayFormat() {
        System.out.format(
            "-----
-----
-----") ;

```

```

System.out.print("\nProduct ID \t\tName\t\tQuantity\t\tRate
\t\t\t\tTotal Price\n");
        System.out.format(
            "-----
-----\n");
    }

    // display
    public void display() {
        System.out.format(" %-9s %-9s %-9s %-5d
%9.2f %-14.2f\n", id,
            pname, qty, price, totalPrice);
    }
}

```

```

import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Calendar;

```

```

public class GopalShoppingBill {

    public static void main(String args[]) {
        // variables
        String id = null;
        String productName = null;
        int quantity = 0;
        double price = 0.0;
        double totalPrice = 0.0;
        double overAllPrice = 0.0;
        double cgst, sgst, subtotal = 0.0, discount = 0.0;
        char choice = '\0';
        System.out.println("\t\t\t\t-----
Invoice-----");
        System.out.println("\t\t\t\t\t " + " " + "Metro Mart
Gopal Shop");
        System.out.println("\t\t\t\t\t3/98 Mecrobertganj New
Mumbai");
    }
}

```

[illegible]

```
// creates Product class object and add it to the
List
        product.add(new Product(id, productName,
quantity, price, totalPrice));
        // ask for continue shopping?
        System.out.print("Want to add more items? (y or
n): ");

        // reads a character Y or N
        choice = scan.next().charAt(0);
        // read remaining characters, don't store (no
use)

        scan.nextLine();
    } while (choice == 'y' || choice == 'Y');
    // display all product with its properties
    Product.displayFormat();
    for (Product p : product) {
        p.display();
    }
    // price calculation
    System.out.println("\n\t\t\t\t\t\t\t\t\t\tTotal Amount
(Rs.) " + overAllPrice);
    // calculating discount
    discount = overAllPrice * 2 / 100;
    System.out.println("\n\t\t\t\t\t\t\t\t\t\tDiscount
(Rs.) " + discount);
    // total amount after discount
    subtotal = overAllPrice - discount;
    System.out.println("\n\t\t\t\t\t\t\t\t\t\tSubtotal " + subtotal);
    // calculating tax
    sgst = overAllPrice * 12 / 100;
    System.out.println("\n\t\t\t\t\t\t\t\t\t\tSGST (%) " + sgst);
    cgst = overAllPrice * 12 / 100;
    System.out.println("\n\t\t\t\t\t\t\t\t\t\tCGST (%) " + cgst);
    // calculating amount to be paid by buyer
    System.out.println("\n\t\t\t\t\t\t\t\t\t\tInvoice
Total " + (subtotal + cgst + sgst));
    System.out.println("\t\t\t\t\t-----Thank You
for Shopping!!-----");
    System.out.println("\t\t\t\t\tVisit
Again");

    // close Scanner
    scan.close();
}
}
```