```
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 %5d
                          %14.2f\n", id,
%9.2f
                   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\-----
Invoice----");
         System.out.println("\t\t\t\t\" + " " + "Metro Mart
Gopal Shop");
         System. out. println("\t\t\t\t\t\13/98 Mecrobertganj New
Mumbai");
```

```
System.out.println("\t\t\t\t" + " " + "Opposite
Metro Walk");
          System.out.println("GSTIN: 03AWBPP8756K592" +
"\t\t\t\t\t\t\tContact: (+91) 7709373709");
          // format of date and time
          SimpleDateFormat formatter = new
SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
          Date date = new Date();
          Calendar calendar = Calendar.getInstance();
     String[] days = new String[] { "Sunday", "Monday",
"Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" };
          // prints current date and time
          System.out.println("Date: " + formatter.format(date) +
" + days[calendar.get(Calendar.DAY OF WEEK) - 1]
                    + "\t\t\t\t\t\\t\(+91) 8007317529");
          Scanner scan = new Scanner(System.in);
          System.out.print("Enter Customer Name: ");
          String customername = scan.nextLine();
          // create Scanner class object
          // creating an ArrayList to store the product
          List<Product> product = new ArrayList<Product>();
          do {
               // read input values
     System.out.println("Enter the product details: ");
               System.out.print("Product ID: ");
               id = scan.nextLine();
               System.out.print("Product Name: ");
               productName = scan.nextLine();
               System.out.print("Quantity: ");
               quantity = scan.nextInt();
               System.out.print("Price (per unit): ");
               price = scan.nextDouble();
               // calculate total price for a particular product
               totalPrice = price * quantity;
               // calculates overall price
               overAllPrice = overAllPrice + totalPrice;
```

```
// 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
        (Rs.) " + overAllPrice);
        // calculating discount
        discount = overAllPrice * 2 / 100;
        (Rs.) " + discount);
        // total amount after discount
        subtotal = overAllPrice - discount;
        System.out.println("\n\t\t\t\t\t\t\t\t\t\t\t\t\t
Subtotal " + subtotal);
        // calculating tax
        sgst = overAllPrice * 12 / 100;
        System.out.println("\n\t\t\t\t\t\t\t\t\t\t\t\t
SGST (%) " + sqst);
        cgst = overAllPrice * 12 / 100;
        CGST (%) " + cgst);
        // calculating amount to be paid by buyer
        Total " + (subtotal + cgst + sgst));
        System. out. println("\t\t\t\t-----Thank You
for Shopping!!----");
        System.out.println("\t\t\t\t
                                                  Visit
Again");
        // close Scanner
        scan.close();
    }
}
```