import java. util.\*;

public class Main{

public static void main(String[] args){

Scanner sc = new Scanner(System.in);

System.out.print("Enter the bill amount:");

double bill=sc.nextDouble();

String items[]={"Burger", "Pizza", "Pasta", "Fries", "Sandwich", "Salad",

"Juice", "Soda", "Ice Cream", "Coffee"};

double prices[]={120.0, 250.0, 150.0, 80.0, 100.0, 90.0, 50.0, 30.0, 70.0,

60.0};

int quantities[] =new int[10];

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

System.out.println(" Welcome to the Restaurant Billing ");

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

System.out.println("Available Items in the resaturant:" );

for(int i=0;i<items.length ; i++){

System.out.println((i+1) + "."+ items[i] + "-Price:" + prices[i]);

}

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

System.out.println(" Add the quantities what you ordered ");

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

for (int i = 0; i < items.length; i++) {

System.out.print("Enter the quantity of " + items[i] + ": ");

quantities[i] = sc.nextInt();

bill += prices[i] \* quantities[i];

}

Double service =0.05\*bill;

Double gst=0.18\*bill;

Double platform=0.02\*bill;

Double packing =0.05\*bill;

Double discount=0.0;

Double total=bill+service+gst+platform+packing+discount;

System.out.println("Total before discount: " + total);

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

System.out.println("Checking for applicable promo codes...");

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

if(bill>1000 && bill<=3000){

System.out.println("Applicable Promocode:INDIA10");

}else if(bill>3000 && bill<=5000){

System.out.println("Applicable Promocode: INDIA10 , INDIA20");

}else if(bill>5000 && bill<=10000){

System.out.println("Applicable Promocode : INDIA10 ,INDIA20,INDIA30");

}else{

System.out.println("No promo codes are applicable for this bill amount.");

}

System.out.print("Enter the promocode:");

String promo=sc.next();

if (promo.equals("INDIA10")) {

if (bill > 1000 && bill <= 3000) {

discount = 0.10 \* bill; // 10% discount

System.out.println("'INDIA10' is applied.");

} else if (bill > 1000) {

discount = 0.10 \* bill; // 10% discount for higher amounts

System.out.println("'INDIA10' is applied.");

} else {

System.out.println("Invalid promo code for this bill amount.");

}

} else if (promo.equals("INDIA20")) {

if (bill > 3000 && bill <= 5000) {

discount = 0.20 \* bill; // 20% discount

System.out.println("'INDIA20' is applied.");

} else {

System.out.println("Invalid promo code for this bill amount.");

}

} else if (promo.equals("INDIA30")) {

if (bill > 5000) {

discount = 0.30 \* bill; // 30% discount

System.out.println("'INDIA30' is applied.");

} else {

System.out.println("Invalid promo code for this bill amount.");

}

} else {

System.out.println("Invalid promo code entered.");

}

total = total - discount;

System.out.println("Total after applying discount: " + total);

System.out.println("\n========== FINAL BILL ==========");

System.out.println("Ordered Items:");

System.out.println("-".repeat(40));

for (int i = 0; i < items.length; i++) {

if (quantities[i] > 0) {

System.out.println(items[i] + " - Quantity: " + quantities[i] + " - Price: "

+ (prices[i] \* quantities[i]));

}

}

System.out.println("-".repeat(40));

System.out.println(" Original Bill Amount : " + bill);

System.out.println(" Service Charge (5%) : " + service);

System.out.println(" GST (18%) : " + gst);

System.out.println(" Platform Fee (2%) : " + platform);

System.out.println(" Packing Charge (5%) : " + packing);

System.out.println(" Discount Applied : -" +discount);

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

System.out.println(" Total Payable Amount : " + total);

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

sc.close();

}

}

**OUTPUT:**

**Enter the bill amount:1000**

**========================================**

**Welcome to the Restaurant Billing**

**========================================**

**Available Items in the resaturant:**

**1.Burger-Price:120.0**

**2.Pizza-Price:250.0**

**3.Pasta-Price:150.0**

**4.Fries-Price:80.0**

**5.Sandwich-Price:100.0**

**6.Salad-Price:90.0**

**7.Juice-Price:50.0**

**8.Soda-Price:30.0**

**9.Ice Cream-Price:70.0**

**10.Coffee-Price:60.0**

**========================================**

**Add the quantities what you ordered**

**========================================**

**Enter the quantity of Burger: 5**

**Enter the quantity of Pizza: 5**

**Enter the quantity of Pasta: 0**

**Enter the quantity of Fries: 5**

**Enter the quantity of Sandwich: 0**

**Enter the quantity of Salad: 0**

**Enter the quantity of Juice: 5**

**Enter the quantity of Soda: 0**

**Enter the quantity of Ice Cream: 5**

**Enter the quantity of Coffee: 0**

**Total before discount: 5005.0**

**========================================**

**Checking for applicable promo codes...**

**========================================**

**Applicable Promocode: INDIA10 , INDIA20**

**Enter the promocode:INDIA20**

**'INDIA20' is applied.**

**Total after applying discount: 4235.0**

**========== FINAL BILL ==========**

**Ordered Items:**

**----------------------------------------**

**Burger - Quantity: 5 - Price: 600.0**

**Pizza - Quantity: 5 - Price: 1250.0**

**Fries - Quantity: 5 - Price: 400.0**

**Juice - Quantity: 5 - Price: 250.0**

**Ice Cream - Quantity: 5 - Price: 350.0**

**----------------------------------------**

**Original Bill Amount : 3850.0**

**Service Charge (5%) : 192.5**

**GST (18%) : 693.0**

**Platform Fee (2%) : 77.0**

**Packing Charge (5%) : 192.5**

**Discount Applied : -770.0**

**---------------------------------**

**Total Payable Amount : 4235.0**

**=================================**