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Program:import java.

util.Scanner;

```
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("=====");
}
}

```

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

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Total Payable Amount : 4235.0

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=== Code Execution Successful ===