

WEEK 6

Week-6

1. Create a class Customer with the following specifications.

Private members

customer_no, customer_name, Qty, Price, Total Price,
Discount, Netprice.

method: Public member:

1. A parametrized constructor to assign initial
2. input() - to read data member
call caldiscount()
3. caldiscount() - to calculate discount
according to total price
and Net Price.

$$\text{Total Price} = \text{Price} \times \text{Qty}$$

$$\text{Total Price} >= 50000 - \text{Discount } 25\% \text{ of TP}$$

$$\text{Total Price} >= 25000 - \text{Discount } 10\% \text{ of TP}$$

$$\text{Net Price} = \text{Total Price} - \text{Discount}$$

4. show() - to display customer details.


```
import java.util.Scanner;
```

```
class Customer {
```

```
    private int cust_no;
```

```
    private String cust_name;
```

```
    private int quantity;
```

```
    private float price;
```

```
    private float total_price, discount, net_price;
```

```
    customer() {}
```

```
    customer ( int no, String name, int qua, float pr) {
```

```
        cust_no = no;
```

```
        cust_name = name;
```

```
        quantity = qua;
```

```
        price = pr;
```

```
        total_price = quantity * price;
```

```
    }
```

```
void input ()
```

```
{
```

```
    Scanner s = new Scanner (System.in)
```

```
    System.out.println ("Enter customer number, customer name,
```

```
    item quantity, item price");
```

```
    cust_no = s.nextInt();
```

```
    cust_name = s.next();
```

```
    quantity = s.nextInt();
```

```
    price = s.nextFloat();
```

```
    total_price = quantity * price;
```

```
}
```

```

void calDiscount() {
    if (total_price > 50000) {
        Discount = (float) (total_price * 0.25);
    }
    else if (total_price > 25000) {
        Discount = (float) (total_price * 0.1);
    }
    else {
        Discount = 0;
    }
    net_price = total_price - Discount;
}

void show() {
    System.out.println ("Customer details");
    System.out.println ("id" + "\n" + customer_number + "\n" + last_name);
    "\n" + Customer_name + "\n" + cust_name + "\n" + phone;
    "\n" + gross price + "\n" + net_price + "\n" + total_price;
    "\n" + total_price + "\n" + total_price + "\n" + Discount;
    "\n" + net_price + "\n" + net_price + "\n" + net_price;
}
}

```

```

class Lab 6 {
    public static void main (String args[]) {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter the no of objects to be created");
        int n = sc.nextInt();
    }
}

```



```
customer[i] = new customer(i);
```

```
for (int i = 0; i < n; i++)
```

```
{  
    system.out.println("Enter customer number, customer  
    name, item quantity, item price");
```

```
    int no = s.nextInt();
```

```
    String name = s.next();
```

```
    int qty = s.nextInt();
```

```
    float pr = s.nextFloat();
```

```
    c[i] = new customer(no, name, qty, pr);
```

```
    c[i].calcDiscount();
```

```
}
```

```
for (int i = 0; i < n; i++)
```

```
{
```

```
    c[i].show();
```

```
}
```

```
}
```

```
}
```

```
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Enter customer number,customer name,item quantity,item price
1 qwe 5 5000
Enter customer number,customer name,item quantity,item price
2 rty 3 10000
Enter customer number,customer name,item quantity,item price
3 yui 6 20000
-----Customer Details-----
```

```
Customer number: 1
Customer name: qwe
Quantity: 5
Item price: 5000.0
Total price: 25000.0
Discount: 2500.0
Net price: 22500.0
```

```
-----Customer Details-----
```

```
Customer number: 2
Customer name: rty
Quantity: 3
Item price: 10000.0
Total price: 30000.0
Discount: 3000.0
Net price: 27000.0
```

```
-----Customer Details-----
```

```
Customer number: 3
Customer name: yui
Quantity: 6
Item price: 20000.0
Total price: 120000.0
Discount: 30000.0
Net price: 90000.0
```