

LAB-ANP-C6339-ACCESS-MODIFIERS

Due date: Saturday, 28 October 2023, 5:30 AM

Maximum number of files: 1

Type of work: Individual work

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Assignment-1

classname : Bill

data member : billno - int, description - string , sales_amount, discount, amt_afterdiscount - double

method:

readbill(): from the user read billno,description, sales_amount

calculatebill(): if sales_amount>50000, discount=10%, else discount=2%, then calculate amt_afterdiscount

showbill(): display all the datamember.

create 2 objects to implement for 2 bills

Solution:-

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

```
public class Bill {
```

```
    private int billno;
```

```
    private String description;
```

```
    private double sales_amount;
```

```
    private double discount;
```

```
    private double amt_afterdiscount;
```

```
    public Bill() {
```

```
    }
```

```
    public Bill(int billno, String description, double sales_amount) {
```

```
this.billno = billno;

this.description = description;

this.sales_amount = sales_amount;

}
```

```
public void readBill() {

    Scanner scanner = new Scanner(System.in);


    System.out.println("Enter bill number: ");

    billno = scanner.nextInt();


    System.out.println("Enter bill description: ");

    description = scanner.nextLine();


    System.out.println("Enter sales amount: ");

    sales_amount = scanner.nextDouble();

}
```

```
public void calculateBill() {

    if (sales_amount > 50000) {

        discount = 10;

    } else {

        discount = 2;

    }

}
```

```
amt_afterdiscount = sales_amount - (sales_amount * discount / 100);
```

```
}
```

```
public void showBill() {  
  
    System.out.println("Bill number: " + billno);  
  
    System.out.println("Bill description: " + description);  
  
    System.out.println("Sales amount: " + sales_amount);  
  
    System.out.println("Discount: " + discount + "%");  
  
    System.out.println("Amount after discount: " + amt_afterdiscount);  
  
}
```

```
public static void main(String[] args) {  
  
    // Create two Bill objects  
  
    Bill bill1 = new Bill();  
  
    Bill bill2 = new Bill();  
  
  
  
    // Read bill data from the user  
  
    bill1.readBill();  
  
    bill2.readBill();  
  
  
  
    // Calculate the bill amounts  
  
    bill1.calculateBill();  
  
    bill2.calculateBill();  
  
  
  
    // Show the bill details  
  
    System.out.println("Bill 1:");  
  
    bill1.showBill();  
  
}
```

```
        System.out.println("Bill 2:");

        bill2.showBill();

    }

}
```

Output:

```
C:\Users\thila\OneDrive\Desktop\Anudip_Labs>javac Bill.java

C:\Users\thila\OneDrive\Desktop\Anudip_Labs>java Bill
Enter bill number:
1
Enter bill description:
Enter sales amount:
200
Enter bill number:
2
Enter bill description:
Enter sales amount:
300
Bill 1:
Bill number: 1
Bill description:
Sales amount: 200.0
Discount: 2.0%
Amount after discount: 196.0
Bill 2:
Bill number: 2
Bill description:
Sales amount: 300.0
Discount: 2.0%
Amount after discount: 294.0
```