

EX.NO:	ELECTRICITY BILL
DATE:	

AIM

To develop a java console application to generate electricity bill with consumer no., consumer name, previous month readings, current month readings and EB type connection and display the result.

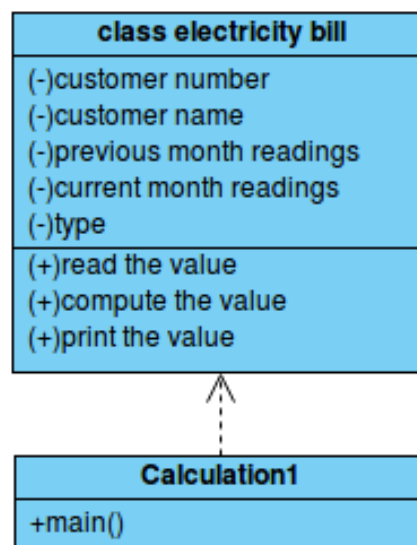
REQUIREMENT

Create a class electricity bill with the following data members: consumer no., consumer name, previous month readings, current month readings and type of EB connection. Member function: read the value, compute the value, print the value.

ALGORITHM

- STEP1: declare a package electricity bills.
- STEP2: declare a class name of electricity bills.
- STEP3: declare a constructor with initial attribute.
- STEP4: declare get data member and member function.
- STEP5: declare class calculation, with a static main function.
- STEP6: create object by with consumer name, consumer no., previous month readings, current month readings.
- STEP7: get input from user.
- STEP8: calculate the total electricity bill.
- STEP9: display result.

CLASS DIAGRAM



PROGRAM

```
/**
```

```
Developed by,
```

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```
*/
```

```
package billings;
```

```
public class ElectricityBill {
```

```
    private long consumernumber;
```

```
    private String consumername;
```

```
    private int previousmonthreading;
```

```
    private int currentmonthreading;
```

```
    private String consumertype;
```

```
    public ElectricityBill()
```

```
    {
```

```
        this.consumernumber=5036;
```

```
        this.consumername="unknown";
```

```
        this.previousmonthreading=305;
```

```
        this.currentmonthreading=405;
```

```
        this.consumertype="domestic";
```

```
    }
```

```
    public ElectricityBill(long number,String name,int previous,int current,String type)
```

```
    {
```

```
        this.consumernumber=number;
```

```
        this.consumername=name;
```

```
        previousmonthreading=previous;
```

```
        currentmonthreading=current;
```

```
        consumertype=type;
```

```
    }
```

```
    public void getData()
```

```
    {
```

```
        Scanner sc=new Scanner(System.in);
```

```
        System.out.printf("\n%40s", "BILLING INFORMATION");
```

```
        System.out.print("\nEnter the consumer number:");
```

```
        this.consumernumber=sc.nextLong();
```

```
        System.out.print("Enter the consumer name:");
```

```
        consumerrname= sc.next();
```

```
        System.out.print("Enter the power rating in watts:");
```

```
        powerrating=sc.nextDouble();
```

```
        System.out.print("Enter the consumer type (domestic or commercial):");
```

```
        customertype=sc.next();
```

```
        System.out.println("How many LED lamps:");
```

```
        quantity=sc.nextInt();  
    }  
    }  
    }  
}
```

CALCULATION

```
package billings;  
  
public class calculation1 {  
    public static void main(String[] args) {  
        ElectricityBill bill1,bill2;  
        bill1=new ElectricityBill(5036,"Mari",105,205,Domestic);  
        bill1.printData();  
        bill2=new ElectricityBill;  
        bill2.getData();  
        bill1.computeBillAmount;  
        bill2.computeBillAmount;  
    }  
}
```

OUTPUT

```
CustomerNumber:1001
CustomerName:Arun
PreviousMonthReading:90
CurrentMonthReading:110
Customertype:Domestic
```

BILLING INFORMATION

```
Enter the customernumber:1002
Enter the customername:mohan
Enter the Previous Month Reading:100
Enter the Current Month Reading:123
Enter the Customer type (Domestic,Commercial):Domestic
```

SALE BILL

```
CustomerNumber:1001
CustomerName:Arun
PreviousMonthReading:90
CurrentMonthReading:110
Customertype:Domestic
Total Amount:    20.00 Rs
```

SALE BILL

```
CustomerNumber:1002
CustomerName:mohan
PreviousMonthReading:100
CurrentMonthReading:123
Customertype:Domestic
Total Amount:    23.00 Rs
```

RESULT

Thus the java application is generated successfully.