

**Aim:**

To develop a java code application to print electrical bill

**Requirement :**

- Develop a java application to create a package billings and to create a class electricity bill with data members .consumer no, consumer name, previous month reading, current month reading, type of eb connection member function :get data, print data,compute bill amount and constructors
- Create a class calculations with main functions,create object of e bills, get data and display the bill amount by calling compute bill amount() function.

**Algorithm:**

**Step1:** Declare a package electricity bills

**Step2:** Declare a class name of electricity bills.

**Step3:** Declare a constructor with initial attributes.

**Step4:** Declare get data member and member function.

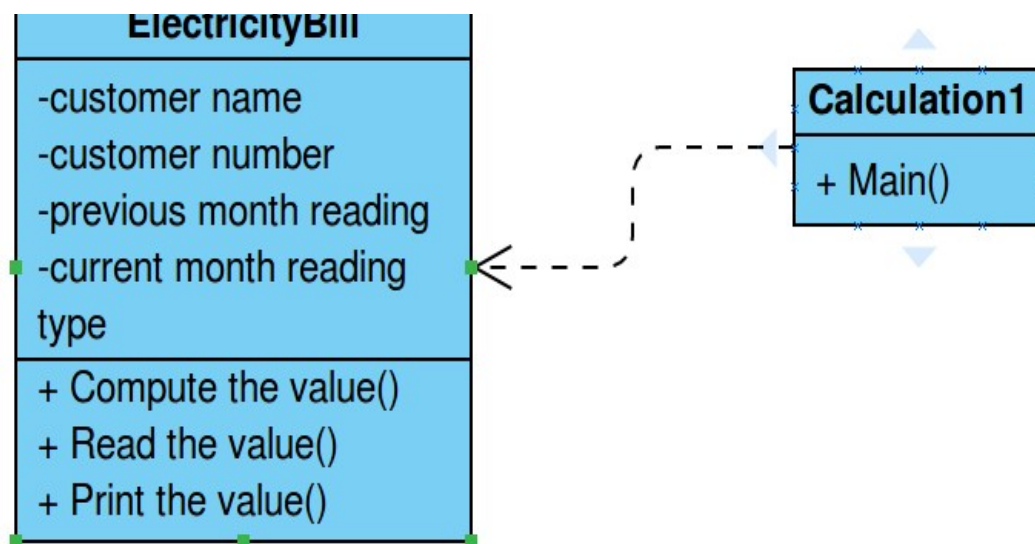
**Step5:** Declare a class calculation with a static main function.

**Step6:** Create a object by with consumer name, consumer number, previous month reading, present month reading.

**Step7:** Get the input from user.

**Step8:** Calculate the total electricity bill.

**Step9:** Display result.

**Class diagram:**

## JavaProgramme:

### /Experiment-01

//created by

//Jacob

```
package electricitybills;
import java.util.Scanner;
public class ElectricityBills {
    private long customernumber;
    private String customername;
    private long previousmonthreading;
    private long currentmonthreading;
    private String customertype;

    public ElectricityBills()
    {
        this.customernumber=1001;
        this.customername="noname";
        this.previousmonthreading=100;
        this.currentmonthreading=120;
        this.customertype="domestic";
    }

    public ElectricityBills(long number,String name,long reading1,long reading2,String type)
    {
        this.customernumber=number;
        this.customername=name;
        previousmonthreading=reading1;
        currentmonthreading=reading2;
        customertype=type;
    }
    public void getdata()
    {
        Scanner sc=new Scanner(System.in);
        System.out.printf("\n%40s","BILLING INFORMATION");
        System.out.print("\nEnter the customernumber:");
        this.customernumber=sc.nextLong();
        System.out.print("Enter the customername:");
        this.customername= sc.next();
        System.out.print("Enter the Previous Month Reading:");
        previousmonthreading=sc.nextLong();
        System.out.print("Enter the Current Month Reading:");
        currentmonthreading=sc.nextLong();
        System.out.print("Enter the Customer type (Domestic,Commercial):");
        customertype=sc.next();
    }
    public void printData()
    {
        System.out.println("CustomerNumber:"+customernumber);
        System.out.println("CustomerName:"+customername);
        System.out.println("PreviousMonthReading:"+previousmonthreading);
        System.out.println("CurrentMonthReading:"+currentmonthreading);
    }
}
```

```

        System.out.println("Customertype:"+customertype);
    }
    public void computeBillamount()
    {
        long unit=currentmonthreading-previousmonthreading;
        double billAmount;
        billAmount=0;
        String spacing"-----";

        if(customertype.equals("Domestic"))
        {
            if((unit>=0)&& (unit<=100))
            {
                billAmount=unit*1.0;
            }
            else if((unit>=101)&&(unit<=200))
            {
                billAmount=unit*2.50;
            }
            else if((unit>=201)&&(unit<=500))
            {
                billAmount=unit*4.0;
            }
            else
            {
                billAmount=unit*6.0;
            }

            else if(customertype.equals("Commercial
            {

            if((unit>=0)&& (unit<=100))
            {
                billAmount=unit*2.0;
            }
            else if((unit>=101)&&(unit<=200))
            {
                billAmount=unit*4.50;
            }
            else if((unit>=201)&&(unit<=500))
            {
                billAmount=unit*6.0;
            }
            else
            {
                billAmount=unit*7.0;
            }
            }

            System.out.print("\n"+spacing+"\n");
            System.out.printf("%40s", "SALE BILL");
            System.out.print("\n"+spacing+"\n");

```

```

        this.printData();
        System.out.printf("%29s%8.2f Rs", "Total Amount:",billAmount);
        System.out.print("\n"+spacing+"\n");
    }
}
calculation.billing.java-1
package electricitybills;

public class Calculationforbillings {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        ElectricityBills E1,E2;
        E1=new ElectricityBills(1001,"A",90,110,"Domestic");
        E1.printData();
        E2=new ElectricityBills();
        E2.getdata();
        E1.computeBillamount();
        E2.computeBillamount();
    }

}

```

### output:

```

CustomerNumber:1001
CustomerName:A
PreviousMonthReading:90
CurrentMonthReading:110
Customertype:Domestic

```

### BILLING INFORMATION

```

Enter the customernumber:1001
Enter the customername:a
Enter the Previous Month Reading:90
Enter the Current Month Reading:110
Enter the Customer type (Domestic,Commercial):domestic

```

-----  
 ----

### SALE BILL

-----  
 ----

```

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

```

-----  
 ----

-----  
 ----

### SALE BILL

-----  
 ----

```

CustomerNumber:1001
CustomerName:a
PreviousMonthReading:90

```

CurrentMonthReading:110

Customertype:domestic

Total Amount: 20.00 Rs

-----  
----

**Result:**

Thus the java program for printing electric bill is executed.

