

EXP NO:1	ELECTRICITY BILL GENERATION
Date:08/07/2019	

### AIM:

TO develop a java console application to generate electricity bill by creating a package as billings and create a class as electricity bill.

### REQUIREMENT:

- Develop a java application to create a package billings and to create a class electricity bill with the data member, consumer no, consumer name, previous month readings, current month readings, type of EB connection
- Member Functions:
  - constructors
  - getdata
  - print data
  - compute billamount
- create a class calculation with main function create object of EB bill class with get data and display the bill amount by calling compute bill amount() function

### ALGORITHM:

Step1: Start

Step2: Declare the class electricity bill with

consumer name  
 consumer no  
 previous month readings  
 type of EB user  
 current month readings

Step3: declare the constructor to give initialized value to the attributes

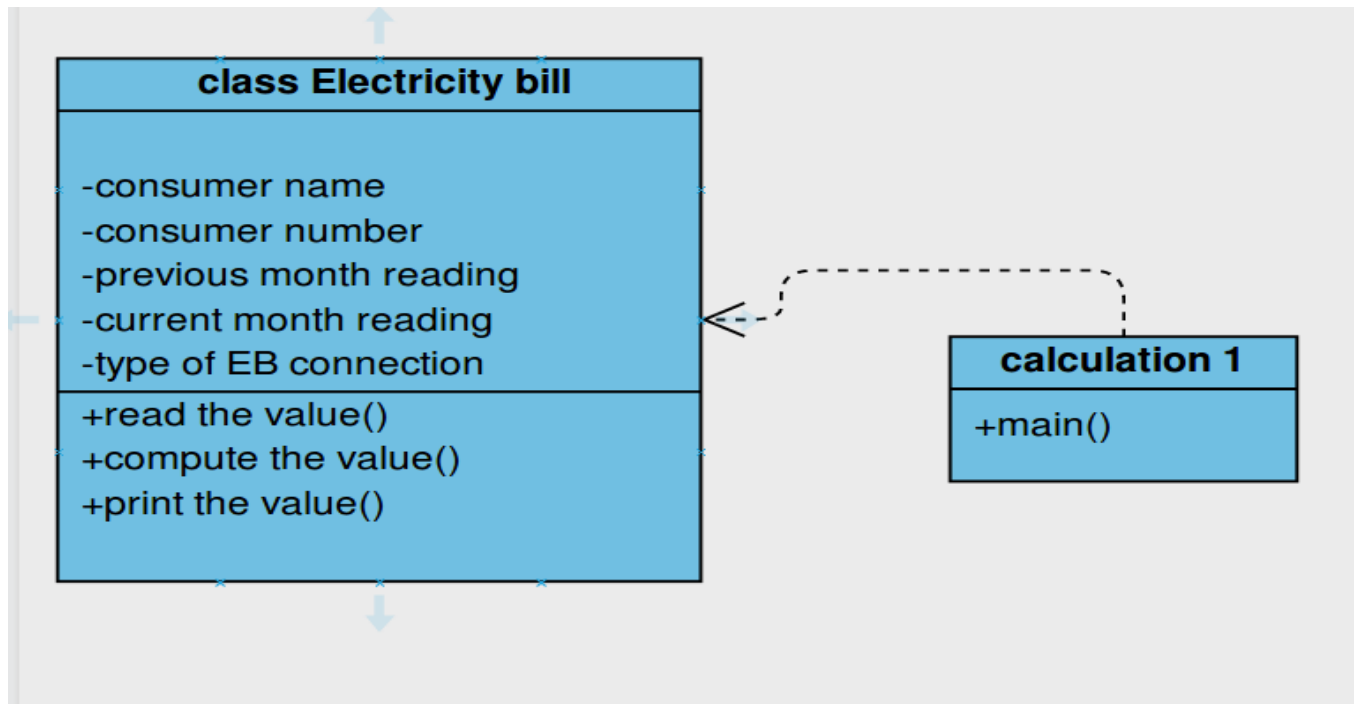
Step4: Declare class calculation1 with main function

Step5: Create objects consumer no, consumer name, previous month readings, current month readings, cost

Step6: get the data

Step7: go to calculation

Step8: display the bill amount



## PROGRAM:

```
/**
1 * Electricity bill generator
 *
 * developed by suriyakumar
 * sksuri01@gmail.com
 * 212217105057
 */
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="unknown";
        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");
}
}

```

```

/**
1 * electricity bill
*
* developed by suriyakumar
* sksuri01@gmail.com
* 212217105057
*/package electricitybills;

```

```

public class Calculationforbillings {

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

}

```

## OUTPUT:

### BILLING INFORMATION

Enter the customernumber:2003

Enter the customername:SURI

Enter the Previous Month Reading:345

Enter the Current Month Reading:678

Enter the Customer type (Domestic,Commercial):Domestic

---

### SALE BILL

---

CustomerNumber:2003

CustomerName:SURI

PreviousMonthReading:345

CurrentMonthReading:678

Customertype:Domestic

Total Amount: 1332.00 Rs

---

## RESULT:

Thus,the java application for generation of electricity bill was implimented successfully