EX NO: 1	
DATE: 08/08/2019	ELECTRICITY BILL

AIM:

To develope a java application to generate electtricity bill and consumer number ,consumer name ,previous month reading , current month reading and type of EB connection and display the result

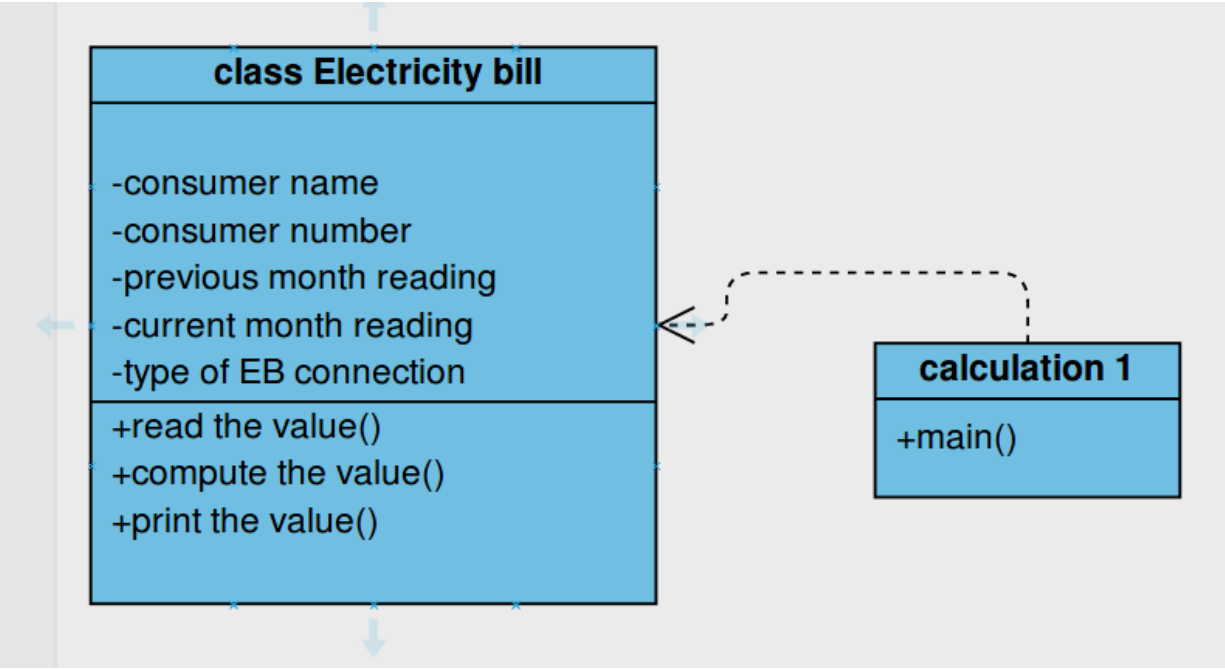
REQUIREMENT:

- Create a class electricity bill with following
- Data members: consumer number , consumer name , previous month reading ,current month reading and type of EB bill of EB connection
- member functinon: read the value ,compute the value ,print the value

ALGORITHM:

- step1: Declare the class electricity bill with customer name ,customer number previous month reading ,type EB connection ,previous month reading
- step2: delcare the constructor to pass the initial attributes
- step3: declare the constructor to with main function
- step4: create objects consumer name,consumer number ,previous month reading
- step5: get the data
- step6: go for calculation
- step7:display the result

CLASS DIAGRAM:



PROGRAM:

```java
/***
* EXPERIMENT-01
*developed by Nithishkumar
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*/
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");
     }
}
```

```
/***
* EXPERIMENT-01
*developed by Nithishkumar
*Saveetha Engineering College
*jpnithishkumar@gmail.com
*/
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:

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

                    BILLING INFORMATION
Enter the customernumber:5042
Enter the customername:Nithish
Enter the Previous Month Reading:250
Enter the Current Month Reading:480
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:5042
CustomerName:Nithish
PreviousMonthReading:250
CurrentMonthReading:480
Customertype:Domestic
                Total Amount:  920.00 Rs
-------------------------------------------------------------------
------------------
```

RESULT:

Thus the java application is generated successfully.