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

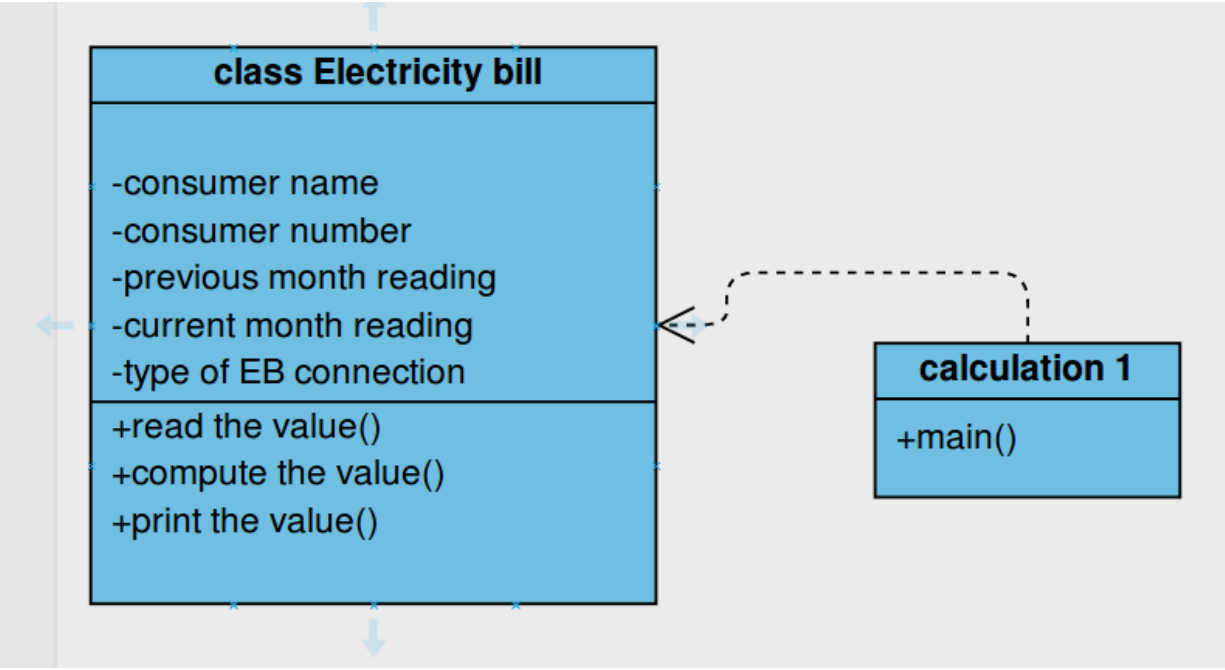
REQUIREMENT:

- 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

```
//CREATED BY
//A SUGUMAR
package electricitybill
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");
	}
}
```

CALCULATION

```
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:22121
Enter the customername:sugumar
Enter the Previous Month Reading:23322
Enter the Current Month Reading:2322
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:22121
CustomerName:sugumar
PreviousMonthReading:23322
CurrentMonthReading:2322
Customertype:Domestic
                Total Amount:-126000.00 Rs
```

RESULT

Thus the java application is generated sucessfully