EXP NO:01	**GENERATE ELECTRICITY BILL**
DATE:08.07.19	

AIM:

To develope a java application to generate electricity bill.

Requriment:

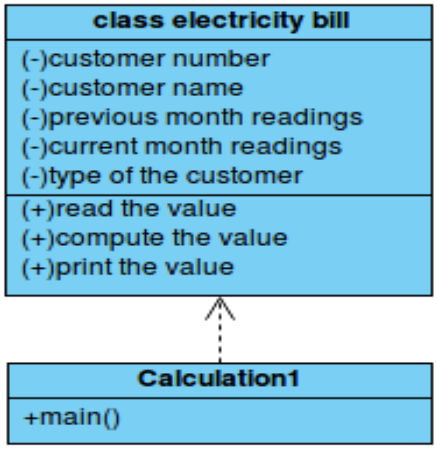
Create a class electrcity bills with following data member

1.Consumer number
2.Consumer name
3.Previous Month Reaadings
4.Current Month Readings
5.Type of EB connection

ALGORITHM:

Step1: Declare a package Electricity Bill
Step2: Declare a class name Electricity Bill
Step3: Declare a constructor with inital attribute
Step4: Declare get data member and member function
Step5: Declare classn caculation 1 with a static main functon
Step6: Create object of type with consumer name,consumer number,previous month readings, current month readings
Step7: Get the input from user
Step8: Calculate the total Eectricity Bill
Step9: Display result

CLASS DIAGRAM:



PROGRAM:

```
/****
 * Program for Electricity Bill
 * @author RAJAMANICKAM A
 *  rajapandidevi1997@gmail.com
 */
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");
}
}
```

```
\****
 * Program for Electricity Bill
 * @author RAJAMANICKAM A
 *  rajapandidevi1997@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,"pavan",90,110,"Domestic");
        E1.printData();
        E2=new ElectricityBills();
        E2.getdata();
        E1.computeBillamount();
        E2.computeBillamount();
 }

}
```

OUTPUT:

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

                    BILLING INFORMATION
Enter the customernumber:7894
Enter the customername:ROSI
Enter the Previous Month Reading:25
Enter the Current Month Reading:30
Enter the Customer type (Domestic,Commercial):DOMESTIC

------------------------------------------------------------------------------
------
                                SALE BILL
------------------------------------------------------------------------------
------
CustomerNumber:1001
CustomerName:RAJA
PreviousMonthReading:90
CurrentMonthReading:110
Customertype:Domestic
                Total Amount:   20.00 Rs
------------------------------------------------------------------------------
------

------------------------------------------------------------------------------
------
```

```
                                SALE BILL
-------------------------------------------------------------------------------
------
CustomerNumber:7894
CustomerName:ROSI
PreviousMonthReading:25
CurrentMonthReading:30
Customertype:DOMESTIC
                Total Amount:    5.00 Rs
-------------------------------------------------------------------------------
-----
```

Result:

Thus Generate Electricity Bill is successfully created by Java program.