ELECTRICITY BILL

AIM:

 To devlop a java console appliction to generate electricity bill

Requirement:

Devlop a java application to create a pckage billings and to create a class Electricity Bill with data members;consumer number,consumer name,previous month reading,current month reading,type of EB connection
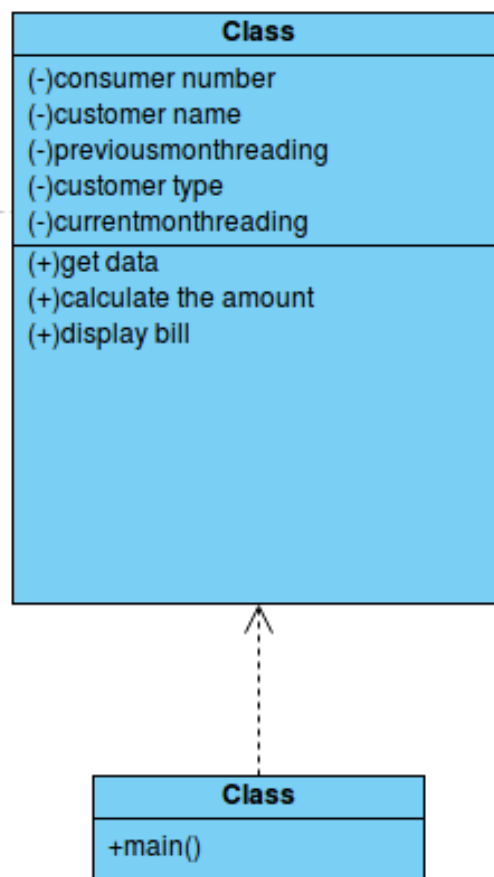Member function: Set Data,PrintData,compute BillAmount constructors.
Create a class calculation with main function create objects of Ebill Class,set the data and display the bill amount by calling compute BillAmount()functions.

ALGORITHM :

1,Declare a package bilings.
2,Declare a class name.
3,Declare constructors with initial value of attributes.
4,Declare function compute BillAmount with Implementation.

CLASS DIAGRAM :

PROGRAM:

/**
Devloped by,
*T.Mari Bhagavathi
*EEE 3rd year,
*Saveetha Engineering College
maribhagavathi1999@gmail.com
*/

```java
package billings;


public class ElectricityBill {

        private long consumernumber;

        private String consumername;

        private int previousmonthreading;

        private int currentmonthreading;

        private String consumertype;


        public ElectricityBill()
        {
                this.consumernumber=5036;

                this.consumername="unknown";

                this.previousmonthreading=305;

                this.currentmonthreading=405;

                this.consumertype="domestic";

        }
        public ElectricityBill(long number,String name,int previous,int current,String type)
        {
                this.consumernumber=number;

                this.consumername=name;

                previousmonthreading=previous;

                currentmonthreading=current;

                consumertype=type;
```

```java
        }

        public void getData()
        {
            Scanner sc=new Scanner(System.in);

            System.out.printf("\n%40s","BILLING INFORMATION");
            System.out.print("\nEnter the consumer number:");
            this.consumermernumber=sc.nextLong();
            System.out.print("Enter the consumer name:");
            consumerrname= sc.next();
            System.out.print("Enter the power rating in watts:");
            powerrating=sc.nextDouble();
            System.out.print("Enter the consumer type (domestic or commercial):");
            customertype=sc.next();
            System.out.println("How many LED lamps:");
            quantity=sc.nextInt();

}

        }
        }

}
```

Calculation.java

```java
package billings;

public class calculation1 {
```

```java
    public static void main(String[] args) {

            ElectricityBill bill1,bill2;

            bill1=new ElectricityBill(5036,"Mari",105,205,Domestic);

            bill1.printData();

            bill2=new ElectricityBill;

            bill2.getData();

            bill1.computeBillAmount;

            bill2.computeBillAmount;

    }


}
```

Output :

```
                    BILLING INFORMATION

CustomerNumber:1001

CustomerName:Arun
PreviousMonthReading:90
CurrentMonthReading:110
Customertype:Domestic


                    BILLING INFORMATION
Enter the customernumber:45456455
Enter the customername:MARI
Enter the Previous Month Reading:5645645
Enter the Current Month Reading:64564156
Enter the Customer type (Domestic,Commercial):Commercial

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


-------------------------------------------------------------------------------
---
                            SALE BILL
-------------------------------------------------------------------------------
---
CustomerNumber:45456455
CustomerName:MARI
```

```
PreviousMonthReading:5645645
CurrentMonthReading:64564156
Customertype:Commercial
                Total Amount:412429577.00 Rs
----------------------------------------------------------------------------
---
```

RESULT :

Thus the Java Program have devloped to generate electricity bill