EX.NO:1

DATE:08-07-19

ELECTRICITY BILL GENERATION

AIM:

To develop a java console application to generate electricity bill.

REQUIREMENTS:

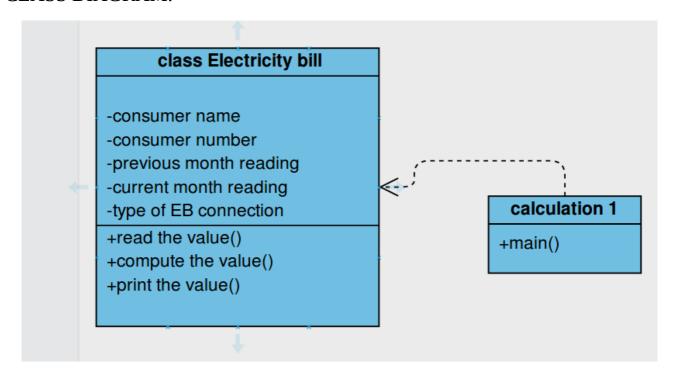
Create a classelectricity bill with the data members:

- 1.Consumer number
- 2.Consumer name
- 3. Previous month readings
- 4. Current month readings
- 5. Type of connection

ALGORITHM:-

- 1.Declare a package electricity bills
- 2.Declare a class name of electricity bills.
- 3.Declare aconstructors with initial attributes.
- 4.Declare get data member and member function.
- 5.Declare claa calculation, with a static main function.
- 6.create object with consumer name, consumer no, previous month readings, current month readings.
- 7.Get the input from user.
- 8. Calculate the total electricity bill
- 9.Display result.

CLASS DIAGRAM:



PROGRAM:

```
/***
* Program for Electricity bill
* @author Monica r
* monicarajavel26@gmail.com
*/
package electricity bills;
import java.util.Scanner;
public class ElectricityBills {
private long consumernumber;
private String consumername;
private long previousmonthreading;
private long currentmonthreading;
private String consumertype;
public ElectricityBills()
{
this.consumernumber=1001;
this.consumername="unknown";
this.previousmonthreading=100;
this.currentmonthreading=120;
this.consumertype="domestic";
}
public ElectricityBills(long number,String name,long reading1,long reading2,String type)
this.consumernumber=number;
this.consumername=name;
previousmonthreading=reading1;
currentmonthreading=reading2;
consumertype=type;
public void getdata()
Scanner sc=new Scanner(System.in);
System.out.printf("\n%40s","BILLING INFORMATION");
System.out.print("\nEnter the consumernumber:");
this.consumernumber=sc.nextLong();
System.out.print("Enter the consumername:");
this.consumername= 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 consumer type (Domestic, Commercial):");
consumertype=sc.next();
public void printData()
System.out.println("consumerNumber:"+consumernumber);
```

```
System.out.println("consumerName:"+consumername);
System.out.println("PreviousMonthReading:"+previousmonthreading);
System.out.println("CurrentMonthReading:"+currentmonthreading);
System.out.println("consumertype:"+consumertype);
public void computeBillamount()
long unit=currentmonthreading-previousmonthreading;
double billAmount:
billAmount=0;
String spacing="-----";
if(consumertype.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(consumertype.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 Monica R
* monicrajavel26@gmail.com
package electricity bills;
public class Calculationforbillings {
public static void main(String[] args) {
// TODO Auto-generated method stub
ElectricityBills E1,E2;
E1=new ElectricityBills(1001,"Tamil",90,110,"Domestic");
E1.printData();
E2=new ElectricityBills();
E2.getdata();
E1.computeBillamount();
E2.computeBillamount();
}
OUTPUT:
      consumerNumber:1001
consumerName:Tamil
PreviousMonthReading:90
CurrentMonthReading:110
consumertype:Domestic
BILLING INFORMATION
Enter the consumernumber:5050
Enter the consumername: Moni
Enter the Previous Month Reading:25
Enter the Current Month Reading:30
Enter the consumer type (Domestic, Commercial):Domestic
SALE BILL
consumerNumber:1001
consumerName:Tamil
PreviousMonthReading:90
CurrentMonthReading:110
consumertype:Domestic
Total Amount: 20.00 Rs
SALE BILL
consumerNumber:5050
consumerName:Moni
```

PreviousMonthReading:25 CurrentMonthReading:30 consumertype:Domestic Total Amount: 5.00 Rs

RESULT:

Thus the java application is developed to generate electricity bill.