EX NO: 1	
DATE: 08/07/2019	ELECTRICIY BILL GENERATION

AIM:

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

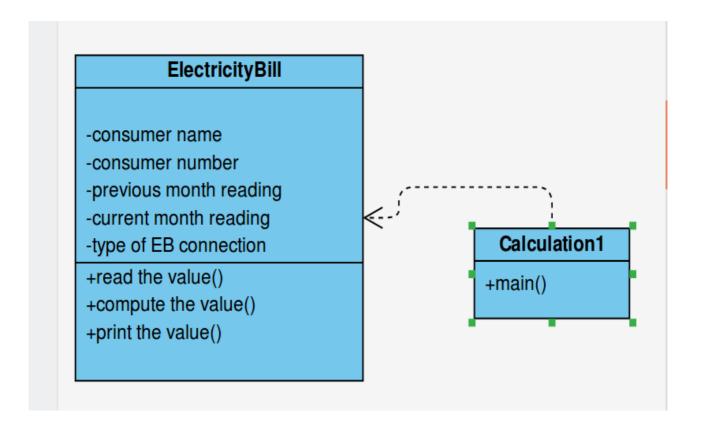
REQUIREMENT:

- create a class electricity bills with the following
- <u>data members</u>: consumer number, consumer name, previous month reading, current month reading and tpe of EB connection
- member function: read the value, compute the value, print the value

ALGORITHM:

- step 1: declare the class electricity bill with consumer number, consumer name, previous month reading, type of EB connection, current month raeading
- step 2 :declare the constructor to pass the intitial attributes
- step 3 :declare the constructors with main function
- step 4 :create objects consumer name ,previous month reading
- step 5 :get the data
- step 6 :go for calculation
- step 7 :display the Ebill

CLASS DIAGRAM:



PROGRAM:

calculation1.java

```
***
* Program for electricity bill
* @author tamilselvan
* tamilfreakz002@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, "Raja", 90, 110, "Domestic");
E1.printData();
E2=new ElectricityBills();
E2.getdata();
E1.computeBillamount();
E2.computeBillamount();
}
}
                                                Electricitybill.java
```

```
* Program for electricity bill
* @author tamilselvan
* tamilfreakz002@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");
}
```

OUTPUT:

consumerNumber:1001 consumerName:Raja PreviousMonthReading:90 CurrentMonthReading:110 consumertype:Domestic

BILLING INFORMATION

Enter the consumernumber:5050
Enter the consumername:Rose
Enter the Previous Month Reading:25
Enter the Current Month Reading:30
Enter the consumer type (Domestic,Commercial):Domestic

SALE BILL

consumerNumber:1001 consumerName:Raja

PreviousMonthReading:90 CurrentMonthReading:110		
consumertype:Domestic		
Total Amount: 20.00 Rs		
SALE BILL		
ConsumerNumber:5050		
ConsumerName:Rose		

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

RESULT:

thus the generation of electricity bill, the java program is created and executed