EX.NO: 01	ELECTRICITY BILL GENERATION
DATE:08/07/19	

AIM:

To develope a java console application to generate electricity bill.

REQUIREMENT:

Develope a java application to console a package billings and to create a class electricity bill with the data number,consumer number,consumer name,previous month reading,current month reading,type of eb connection number function.Get data, print data output bill and construction.

Create a class calculation which main function create the eb bill,class get the data,display the amount on computing bill amount()function.

ALGORITHM:

STEP 1:Declare the class Electricity Bill with consumer no,consumer name,previous month reading,current month reading,type of eb connection.

STEP 2:Declare the constructors to pass the initial attributes.

STEP 3:Declare class calculation with main function.

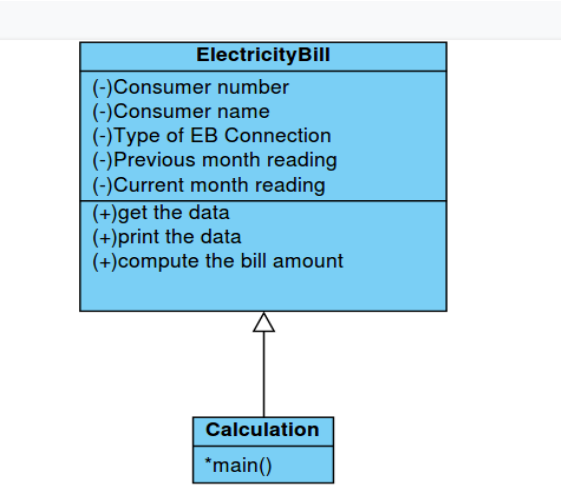
STEP 4:Create objects consumer name,consumer no,previous and current month reading,type of eb connections.

STEP 5:Get the data.

STEP 6:Go for the calculation.

STEP 7:Display the Electricity Bill.

FLOW CHART:



PROGRAM:

```
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();
	}
//Experiment-01
//created by
//aharish.m
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;

        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");
        }
}
```

OUTPUT:

```
Customer Number:1001                    CustomerName:arun
current month reading:    0.00 previous month reading:    0.00 CustomerType:
Domestic

                                BILLING INFORMATION
Enter the customer number:1001
Enter the customer name:arun
Enter the current month reading:100
Enter the previous month reading:200
Enter the customer type (Domestic or Commercial):domestic


--------------------------------------------------------------------------------
                 Electricity BILL
--------------------------------------------------------------------------------
Customer Number:1001                    CustomerName:arun
current month reading:  100.00 previous month reading:  200.00 CustomerType:
domestic
            Total Amount:   25.00 Rs
--------------------------------------------------------------------------------
```

RESULT:

Thus the java application is generated succesfully.