EX NO: DATE:

JAVA APPLICATION FOR ELECTRICITYBILL

AIM:

To develop java application to generate electricitybill and consumer number, consumer name, previous month reading, current month reading and the type of EB connection and display the result.

REQUIRMENT:

To develop java application to generate electricitybill and consumer number, consumer name, previous month reading, current month reading and the type of EB connection.

Create a class Electricity Bills with the following,

Data members: consumer number, consumer name, previous month reading, current month reading and type of EB connection.

Member Function: read the value, compute the value, print the value.

ALGORITHM:

STEP1 : Declare a package electricitybills.

STEP2: Declare a class name ElectricityBills.

STEP3: Declare a constructor with initial attribute.

STEP4: Declare get data member and member function.

STEP5: Declare class calculation1 with a member function.

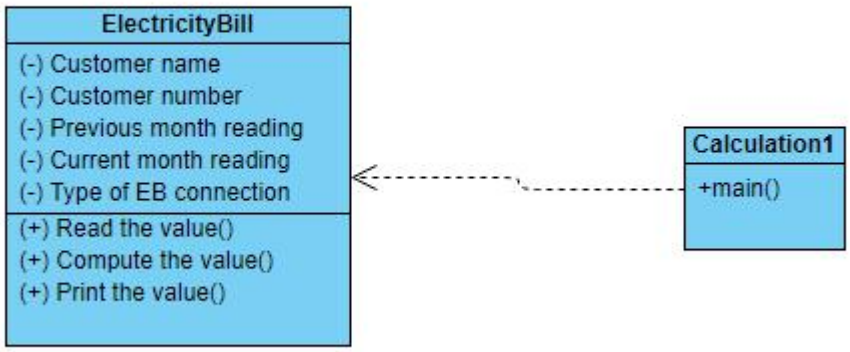
STEP6: Crete object of type with consumer name, month reading, current month reading.

STEP7: Get the input from user.

STEP8: Calculate the total electricity bill.

STEP9: Display Results.

CLASS DIAGRAM:



PROGRAM:

```
//Experiment-01
//created by
//Kaarthikeyan.G
package billings;

import java.util.Scanner;

public class ElectricityBill {

	private long customernumber;

	private String customername;

	private long previousmonthreading;

	private long currentmonthreading;

	private String customertype;


	public ElectricityBill()

	{

		this.customernumber=1000;

		this.customername="gk";
```

```
        this.previousmonthreading=10;
        this.currentmonthreading=12;
        this.customertype="domestic";
}

public ElectricityBill(long number,String name,long pmr,long cmr ,String type)
{
        this.customernumber=number;
        this.customername=name;
        previousmonthreading=pmr;
        currentmonthreading=cmr;
        customertype=type;
}
public void getdata()
{
        Scanner sc=new Scanner(System.in);
        System.out.printf("\n%40s","BILLING INFORMATION");
        System.out.print("\nEnter the customer number:");
        this.customernumber=sc.nextLong();
        System.out.println("Enter the customer name:");
        this.customername= sc.next();
        System.out.println("Enter the Previous Month Reading");
        previousmonthreading=sc.nextLong();
        System.out.println("Enter the Current Month Reading");
        currentmonthreading=sc.nextLong();
        System.out.println("Enter the Customer type (Domestic,Commercial)");
        customertype=sc.next();
```

```
	}
	public void printData()
	{
		System.out.print("Customer Number:"+customernumber+"
"+"CustomerName:"+customername+"    ");
		System.out.print("PreviousMonthReading:"+previousmonthreading+"
"+"CurrentMonthReading:"+currentmonthreading+"    "+"Customer Type:"+customertype);
	}
	public void computeBillamount()
	{
		long unit=currentmonthreading-previousmonthreading;
		double 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");
        }
}
package billings;
```

```
public class Calculationofbilling
{

	public static void main(String[] args) {
		ElectricityBill B1,B2;
		B1=new ElectricityBill(1000,"gk",1010,1329,"Domestic");
		B1.printData();
		B2=new ElectricityBill();
		B2.getdata();
		B1.computeBillamount();
		B2.computeBillamount();

	}

}
```

OUTPUT:

```
Customer Number:1000   CustomerName:gk   PreviousMonthReading:1010
CurrentMonthReading:1329   Customer Type:Domestic

                BILLING INFORMATION

Enter the customer number:212217105023

Enter the customer name:

kaarthikeyan

Enter the Previous Month Reading

1234

Enter the Current Month Reading
```

2123

Enter the Customer type (Domestic,Commercial)

Domestic

SALE BILL

Customer Number:1000 CustomerName:gk PreviousMonthReading:1010
CurrentMonthReading:1329 Customer Type:Domestic Total Amount: 1276.00 Rs

---

SALE BILL

Customer Number:212217105023 CustomerName:kaarthikeyan
PreviousMonthReading:1234 CurrentMonthReading:2123 Customer Type:Domestic
Total Amount: 5334.00 Rs

RESULT:

Thus the java console to generate electricity bill was created and output is verified sucessufully.