EX NO:1

ELECTRICITY BILL

DATE:

AIM:

To develope a java console apllication to generate electricity bill with consumer no, consumer name, previous month reading and present month reading and EB type connection and display the result.

REQUIREMENT:

Create a class electricty bill with the following data member, customername, previous month reading, current month reading and type of EB connection, member function: read the value, compute the value, print the value.

ALGORITHM:

STEP 1: Declare a package electricty bills.

STEP 2: Declare a class name of electricity bills.

STEP 3: Declare a contruction with initial attribute.

STEP 4: Declare get data member and member function.

STEP 5: Delare class calculation, with a static main function.

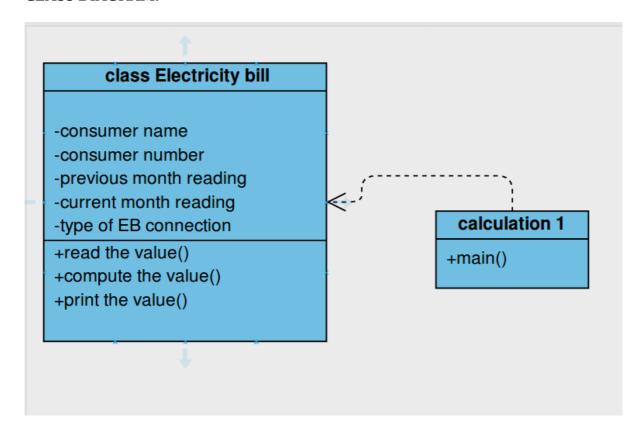
STEP 6: Create object by with consumer name, consumer no, previous month reading, present month reading.

STEP 7: Get input from user.

STEP 8: Calculation thw total eclectricity bill.

STEP 9 :Display result.

CLASS DIAGRAM:



PROGRAM:

```
/**
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package elecricity bills;
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;
              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");
}
```

CALCULATION:

```
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();
    }
}
```

OUTOUT:

CustomerNumber:1001 CustomerName: Arun PreviousMonthReading:90 CurrentMonthReading:110 Customertype:Domestic BILLING INFORMATION Enter the customernumber:34 Enter the customername: 456 Enter the Previous Month Reading: 123 Enter the Current Month Reading: 321 Enter the Customer type (Domestic, Commercial): Domestic SALE BILL CustomerNumber:1001 CustomerName: Arun PreviousMonthReading:90 CurrentMonthReading:110 Customertype:Domestic Total Amount: 20.00 Rs ______ SALE BILL -----______ CustomerNumber:34 CustomerName: 456 PreviousMonthReading: 123 CurrentMonthReading:321

RESULT:

Customertype:Domestic

Thus the java application is generated successfully.

Total Amount: 495.00 Rs