EX.NO.1	
08-07-19	

ELECTRICITY BILL

Aim:To develop a java code application to print electrical bill

Requirement:

- Develop a java application to create a package billings and to create a class electricity bill with data memebers .consumer no, consumer name, previous month reading, current month reading, tyoe of eb connection member function :get data, print data, compute bill amount and constructors
- Dreate a class calculations with main functions, create object of e bills, get data and display the bill amount by calling compute bill amount() function.

Algorithm:

Step1: Declare a package electricity bills

Step2: Declare a class name of electricity bills.

Step3: Declare a constructor with intial attributes.

Step4: Declare get data member and member function.

Step5: Declare a class calculation with a statiuc main function.

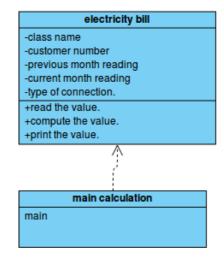
Step6: Cretae a object by with consumer name, consumer number, previous month reading, present month reading.

Step7: Get the input from user.

Step8: Calculate the total electricity bill.

Step9: Display result.

Class diagram:



```
JavaProgramme:
/Experiment-01
//created by
//guru sai
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="noname";
              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.billing.java-1
package electricitybills;
public class Calculationforbillings {
      public static void main(String[] args) {
            // TODO Auto-generated method stub
            ElectricityBills E1,E2;
            E1=new ElectricityBills(1001, "A", 90, 110, "Domestic");
            E1.printData();
            E2=new ElectricityBills();
            E2.getdata();
            E1.computeBillamount();
            E2.computeBillamount();
      }
}
output:
CustomerNumber:1001
CustomerName: A
PreviousMonthReading:90
CurrentMonthReading:110
Customertype:Domestic
                     BILLING INFORMATION
Enter the customernumber:1001
Enter the customername:a
Enter the Previous Month Reading:90
Enter the Current Month Reading: 110
Enter the Customer type (Domestic, Commercial):domestic
                                  SALE BILL
CustomerNumber:1001
CustomerName: A
PreviousMonthReading:90
CurrentMonthReading:110
Customertype:Domestic
               Total Amount: 20.00 Rs
                                SALE BILL
CustomerNumber:1001
CustomerName:a
```

PreviousMonthReading:90 CurrentMonthReading:110 Customertype:domestic Total Amount:

0.00 Rs

Result:

As per requriment electricity bill is generated with previous and current month reading by using java programme.