

#### Aim:

Develop a Java cansole application to generate Electricity bill.

# Requirements:

create a class Electricity bill with the following data members:consumer no,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:

Step:1-Declare a package billings

Step:2-Declare a class name Electricity bills

Step:3-Declare a constrution with initial aterative

Step:4- Declare a data members and a member function

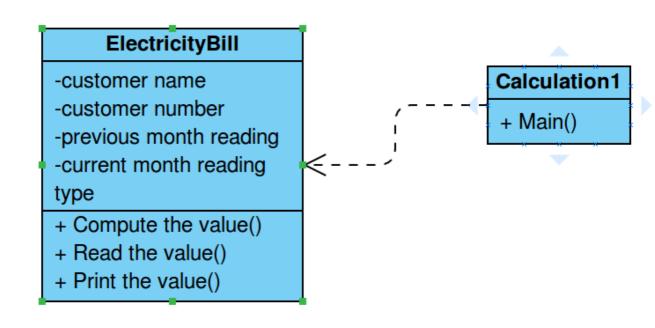
**Step:**5-Declare a class calculation with static main function

**Step:**6-create object or a type with Declare customer name, customer no, previous month reading, customer type (domestic or commercial)

Step:7-Get the input from user

Step:8-Calculate the total electricity bill

Step:9-Display Result.



## PROGRAMME:

## ElectricityBill.java

```
package billings;
import java.util.Scanner;
import java.util.Scanner;
/**
* Electricity bill
* @author M.upendra
*/
public class ElectricityBill {
      private long customernumber;
      private String customername;
      private double previousmonthreading;
      private double currentmonthreading;
      private String customertype;
       * to create electricity bill with initial values
      */
      public ElectricityBill()
            this.customernumber=1000;
            this.customername="unknown";
            this.currentmonthreading=0;
            this.previousmonthreading=0;
            this.customertype="Domestic";
      public ElectricityBill(long number,String name,double c_reading,double
p_reading,String type)
            this.customernumber=number;
            this.customername=name;
            double c_rating;
            currentmonthreading=c_reading;
            previousmonthreading=p_reading;
            customertype=type;
      }
```

```
* to get bill information from the user
      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.print("Enter the customer name:");
            customername= sc.next();
            System.out.print("Enter the current month reading:");
            currentmonthreading=sc.nextDouble();
            System.out.print("Enter the previous month reading");
            previousmonthreading=sc.nextDouble();
            System.out.print("Enter the customer type (Domestic or
Commercial):");
            customertype=sc.next();
      /**
      * to print the bill details
      public void printData()
            System.out.printf("%-40s%40s\n", "Customer
Number:"+customernumber,"CustomerName:"+customername);
            System.out.printf("%s%8.2f %s%8.2f %-16s %40s\n", "current month
reading:",currentmonthreading,"previous month
reading:",previousmonthreading,"CustomerType:",customertype);
      * to get the total amount
      public void computeBillAmount()
            double totalAmount=-1;
            double unitsconsumed;
```

```
divider="-
           unitsconsumed=currentmonthreading-previousmonthreading;
           if(customertype.equals("Domestic"))
                 if((unitsconsumed>=0)&& (unitsconsumed<=100))
                       totalAmount=unitsconsumed*1.0;
                 }else if((unitsconsumed>=101)&&(unitsconsumed<=200))
                       totalAmount=unitsconsumed*2.50;
                 }else if((unitsconsumed>=201)&&(unitsconsumed==500))
                       totalAmount=unitsconsumed*4.0;
                 }else
                       totalAmount=unitsconsumed*6.0;
           }else if(customertype.equals("Commercial"))
                 if((unitsconsumed>=0)&& (unitsconsumed<=100))
                       totalAmount=unitsconsumed*2.0;
                 }else if((unitsconsumed>=101)&&(unitsconsumed<=200))
                       totalAmount=unitsconsumed*4.50;
                 }else if((unitsconsumed>=201)&&(unitsconsumed<=500))
                       totalAmount=unitsconsumed*6.0;
                 }else
                 {
                       totalAmount=unitsconsumed*7.0;
           System.out.print("\n"+divider+"\n");
           System.out.printf("%40s", "Electricity BILL");
           System.out.print("\n"+divider+"\n");
           this.printData();
           System.out.printf("%29s%8.2f Rs", "Total Amount:",totalAmount);
           System.out.print("\n"+divider+"\n");
     }
}
```

String

### Calculation1.java

```
package billings;
public class Calculation1 {
      public static void main(String[] args) {
            ElectricityBill bill1,bill2;
           bill1=new ElectricityBill(2001,"Kamal",0,0,"Domestic");
            bill1.printData();
           bill2=new ElectricityBill();
            bill2.getData();
           bill1.computeBillAmount();
           bill2.computeBillAmount();
      }
OUTPUT:
customer number:2001
                                 customer name: kamal
current month reading:0
                                 previous month reading:0
customer type:Domestic
                      BILLING INFORMATION
Enter the customer number: 47655
Enter the customer name: upendra
Enter the current month reading: 899
Enter the previous month reading:675
Enter the customer type(Domestic or Commercial):Commercial
                      ELECTRICITY BILL
customer number=2001
                                customer name:kamal
current month reading:0
                                previous month reading:0
customer type: Domestic
                     Total amount: 0.00 Rs
                     ELECTRICITY BILL
```

customer number:47655 current month reading:899 customer type:Commercial customer name:upendra previous month reading:675

Total amount:1344 Rs