Exp.no:	
Date:	

# Java Appliction For Creating ElectricityBill

## Aim:

To develop a Java console application to generate ElectricityBill.

## Requirement:

- Develop a java application to create a package billings and to create a class ElectricityBill with the data members,consumer number,consumer name,previous month reading,current month reading,type of EB connection.
- Create a class calculation with main function, create object of eb class, get the data and display the bill amount by calling compute Bill amount function.

## Algorithm:

Step 1: Declare a package Billings .

Step2:Declare a class name Electricitybill

Step 3: Declare a construction with initial attributes.

Step 4:Declare a data member and member function.

Step 5:Declare a class calculation with consumer name

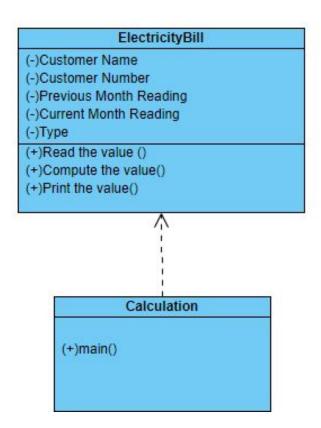
Step 6:Create object of type with consumer name, consumer number, previous month reading, current month reading, consumer type.

Step 7:Get input from user.

Step 8:calculate the total ElectricityBill.

Step 9:Display the result.

# Class Diagram:



# Program:

```
/***Experiment 01
*created by G.Nikhil
*
* eee-A
*/
package billings;
import
java.util.Scanner;
```

```
public class
ElectricityBill {
private long
customer number;
private String
customer_name;
private String
customer_type;
private double
lastmonthreading;
private double
currentmonthreading;
public ElectricityBill()
this.customer_numbe
r=1000;
this.customer name=
"noname";
this.customer_type="
domestic":
this.lastmonthreading
=100;
this.currentmonthread
ing=0;
}
public
ElectricityBill(long
number, String
name,String
type,double
previous, double
current)
{
this.customer_numbe
r=number;
this.customer_name=
name;
this.customer_type=ty
pe;
lastmonthreading=pre
vious;
currentmonthreading=
current;
}
```

```
public void getData()
Scanner sc=new
Scanner(System.in);
System.out.printf("\n
%40s","ELECTRICIT
Y BILL");
System.out.print("\nE
nter the customer
number:");
this.customer numbe
r=sc.nextLong();
System.out.print("Ent
er the customer
name:");
customer name=
sc.next();
System.out.print("Ent
er the type of EB
connection(DOMESTI
C OR
COMMERCIAL:");
customer_type=sc.ne
xt();
System.out.print("Ent
er the last month
coustomer reading:");
lastmonthreading=sc.
nextInt();
System.out.println("E
nter the current month
coustomer reading:");
currentmonthreading=
sc.nextInt();
}
public void printData()
System.out.printf("%-
40s%40s\n",
"Customer
Number:"+customer
number, "CustomerNa
me:"+customer name
);
```

```
System.out.printf("%s
40%s %-16s %f\n",
"Type of EB
Connection:",custome
r type,"last month
reading:",lastmonthre
ading);
System.out.printf("%-
40s", "current month
reading:"+currentmon
threading);
}
/***
* To calculate the
electricity bill amount
*/
public void
computeBillAmount()
{
double
totalAmount=-1;
double
quantity=currentmont
hreading-lastmonthre
ading;
String
divider="-----
if(customer type.equ
als("DOMESTIC"))
{
if((quantity>=0)&&
(quantity<=100))
totalAmount=quantity*
1;
}else
if((quantity>=101)&&(
quantity<=200))
totalAmount=quantity*
2.50;
```

```
}else
if((quantity>=201)&&(
quantity<=500))
totalAmount=quantity*
4;
}else
{
totalAmount=quantity*
6;
}
}else
if(customer_type.equ
als("COMMERCIAL"))
if((quantity>=0)&&
(quantity<=100))
totalAmount=quantity*
2;
}else
if((quantity>=101)&&(
quantity<=200))
{
totalAmount=quantity*
4.50;
}else
if((quantity>=201)&&(
quantity<=500))
totalAmount=quantity*
6;
}else
{
totalAmount=quantity*
7;
}
}
System.out.print("\n"+
divider+"\n");
System.out.printf("%4
0s", "ELECTRICITY
BILL");
System.out.print("\n"+
divider+"\n");
```

```
this.printData();
System.out.printf("%2
9s%8.2f Rs", "Total
Amount:",totalAmount
System.out.print("\n"+
divider+"\n");
}
}
calculation:
/***created by g.nikhil
* eee-A
*/
package billings;
public class
Calculation {
public static void
main(String[] args) {
// TODO
Auto-generated
method stub
ElectricityBill
bill1,bill2;
bill1=new
ElectricityBill(2000,"K
umar","domestic",100
,200);
bill1.printData();
bill2=new
ElectricityBill();
bill2.getData();
bill1.computeBillAmo
unt();
bill2.computeBillAmo
unt();
}
}
```

#### **OUTPUT:**

Enter the customer number:5017 Enter the customer name:nikhil Enter the type of EB connection(DOMESTIC OR COMMERCIAL:DOMESTIC Enter the last month coustomer reading:500

Enter the current month coustomer reading:

200

ELECTRICITY BILL Customer Number:2000 CustomerName:Kumar Type of EB Connection:40domestic last month reading: 100.000000 current month reading:200.0 Total Amount: -1.00 Rs ELECTRICITY BILL Customer Number: 5017 Customer Name: nikhil

Type of EB Connection:40DOMESTIC last month reading: 500.000000 current month reading:200.0 Total Amount:-1800.00 Rs

# Result:

Thus the java application for electricity bill is programmed and executed successfully.