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| EX NO: | ELECTRICITYBILL GENERATION |
| DATE: |

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.

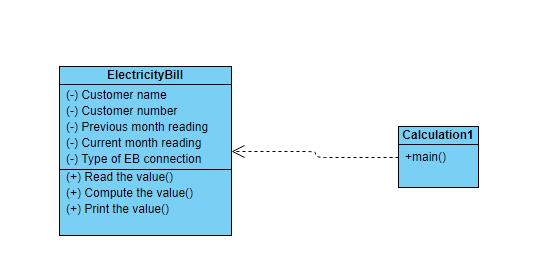
STEP6: Crete object of type with consumer name, month reading, current month reading.

STEP7: Get the input from user.

STEP8: Calculate the total electricity bill.

STEP9: Display Results.

CLASS DIAGRAM:



PROGRAM:

//Experiment-01

//created by

//Atchaya.H

**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="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("\nEnter the customername:");

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");

}

}

**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();

}

}

OUTPUT:

BILLING INFORMATION

Enter the customernumber:23456

Enter the customername:Atchaya

Enter the Previous Month Reading:98

Enter the Current Month Reading:200

Enter the Customer type (Domestic,Commercial):Commercial

---------------------------------------------------------------------------

SALE BILL

---------------------------------------------------------------------------

CustomerNumber:1001

CustomerName:Arun

PreviousMonthReading:90

CurrentMonthReading:110

Customertype:Domestic

Total Amount: 20.00 Rs

---------------------------------------------------------------------------

---------------------------------------------------------------------------

SALE BILL

---------------------------------------------------------------------------

CustomerNumber:23456

CustomerName:Atchaya

PreviousMonthReading:98

CurrentMonthReading:200

Customertype:Commercial

Total Amount: 459.00 Rs

---------------------------------------------------------------------------

RESULT:

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