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## Java Program To Calculate Electricity Bill | Example

in Java Programs | June 9, 2023 | Comments Off

**Java program to calculate Electricity bill.** If you wondering on how to calculate Electricity bill by writing the Java program there you go. Here we share the list of code with sample outputs, in five different ways using static values, using function or method, using command line arguments, do while, for loop, user define method along with sample outputs for each program.

### Q. how to calculate electricity bill?

Consider the following example:

For example, a consumer consumes 500 watts per hour daily for one month. Calculate the total energy bill of that consumer if per unit rate is 7? ( In \$, £, €, INR, DHR, Riyal etc) [Take 1 month = 30 Days].

### Solution :

### How do I calculate my electric bill??!

<b>Total Kilowatts used</b> <i>(As noted on each item)</i>	X	<b>Number of hours a month</b> <i>(Number of hours a day X 30 days)</i>	X	<b>Cost per Kilowatt hour (kWh)</b> <i>(Refer to the tariff list)</i>
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s we know that 1 Unit = 1kWh

So total kWh = 500 watts x 24 hours x 30 days

= 360000

So, we want to convert into units:

Where 1 unit = 1kWh

Total consumed units are as 360000/1000 = 360

And, cost per unit is = 7, the total cost of the electricity bill is 360 x 7 = 2520( In \$, £, €, INR, Rs, DHR, Riyal etc).

That's it. Let's get into programming.

### 1. Java program to calculate electricity using the static method with outputs

There you go by using the standard values along with the sample outputs. If you have any doubts related to the following program do leave a comment here.

```
1 import java.util.*;
2 class ComputeElectricityBill
3 {
4     public static void main(String args[])
5     {
6         int units=280;
7
8         double billpay=0;
9
10        if(units<100)
11        {
12            billpay=units*1.20;
13        }
```

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- C Find Maximum Between Two Numbers

```
14     else if(units<300)
15     {
```

Toggle Case Of Character Of A String



```
22
23     System.out.println("Bill to pay : " + billpay);
24     }
25 }
```

**output:**

```
1 Bill to pay : 480.0
```

Trim Leading & Trailing White Space Character From String

Remove All Occurrences Of A Character From String

Reverse Of A String

Check A String Is Palindrome Or Not

Find Lowest Frequency Character In A String

Highest Frequency Character In A String

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**2. Taking inputs through scanner class**

Java code for obtaining Electricity Bill taking inputs through scanner class, with outputs.

```
1 import java.util.*;
2 class ComputeElectricityBill
3 {
4     public static void main(String args[])
5     {
6         long units;
7
8         Scanner sc=new Scanner(System.in);
9
10        System.out.println("enter number of units");
11
12        units=sc.nextLong();
13
14        double billpay=0;
15
16        if(units<100)
17            billpay=units*1.20;
18
19        else if(units<300)
20            billpay=100*1.20+(units-100)*2;
21
22        else if(units>300)
23            billpay=100*1.20+200 *2+(units-300)*3;
24
25        System.out.println("Bill to pay : " + billpay);
26    }
27 }
```

**output:**

```
1 C:\Users\goutham\Desktop\E>javac ComputeElectricityBill.java
2
3 C:\Users\goutham\Desktop\E>java ComputeElectricityBill
4
5 enter number of units
6
7 550
8
9 Bill to pay : 1270.0
```

**3. Taking Inputs through command line arguments**

Taking inputs through command line arguments with an output.

```
1 import java.util.*;
2 class ComputeElectricityBill
3 {
4     public static void main(String args[])
5     {
6         long units;
7         units=Long.parseLong(args[0]);
8
9         double billpay=0;
10        if(units<100)
```

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```

11         billpay=units*1.20;
12     } else if(units > 300)

```

**output:**

```

1 C:\Users\goutham\Desktop\E>javac ComputeElectricityBill.java
2
3 C:\Users\goutham\Desktop\E>java ComputeElectricityBill 500
4
5 Bill to pay : 1120.0

```

**4. Using Inheritance**

```

1 import java.util.*;
2 class CalculateBill
3 {
4     double billpay;
5
6     void Bill(long units)
7     {
8         if(units<100)
9             billpay=units*1.20;
10        else if(units<=300)
11            billpay=100*1.20+(units-100)*2;
12        else if(units>300)
13            billpay=100*1.20+200 *2+(units-300)*3;
14
15    }
16
17
18 }
19 class ComputeElectricityBill extends CalculateBill
20 {
21     public static void main(String args[])
22     {
23         long units;
24
25         Scanner sc=new Scanner(System.in);
26
27         System.out.println("enter number of units");
28
29         units=sc.nextLong();
30
31         ComputeElectricityBill b=new ComputeElectricityBill();
32         b.Bill(units);
33
34         System.out.println("Bill to pay : " + b.billpay);
35     }
36 }

```

**output:**

```

1 enter number of units
2 500
3 Bill to pay : 1120.0
4
5
6 enter number of units
7 250
8 Bill to pay : 420.0
9
10
11 enter number of units
12 1000
13 Bill to pay : 2620.0

```

**4. Electricity Bill code by creating a Separate class**

Through creating a separate class( ) and taking inputs through scanner class.

```

1 import java.util.*;
2 class CalculateElectricityBill
3 {
4     double billpay;
5
6     CalculateElectricityBill(long units)
7     {
8         if(units<100)
9             billpay=units*1.20;
10        else if(units<=300)
11            billpay=100*1.20+(units-100)*2;
12        else if(units>300)
13            billpay=100*1.20+200 *2+(units-300)*3;

```

```

14
15
22     {
23         long units;
24
25         Scanner sc=new Scanner(System.in);
26
27         System.out.println("enter number of units");
28
29         units=sc.nextLong();
30
31         CalculateElectricityBill b=new CalculateElectricityBill(units);
32
33         System.out.println("Bill to pay : " + b.billpay);
34     }
35 }

```

**output:**

```

1 enter number of units
2 1000
3 Bill to pay : 2620.0

```

## 5. User-defined method ( Function )

```

1 java.util.Scanner;
2 class ComputeElectricityBill
3 {
4     public static void main(String args[])
5     {
6         double units,b;
7
8         Scanner sc=new Scanner(System.in);
9
10        System.out.println("enter number of units");
11
12        units=sc.nextDouble();
13
14        b= calculateElectricityBill(units);
15
16        System.out.println("Bill to pay : " + b);
17    }
18    static double calculateElectricityBill(double units)
19    {
20        double billpay=0;
21
22        if(units<100)
23            billpay=units*1.20;
24        else if(units<=300)
25            billpay=100*1.20+(units-100)*2;
26        else if(units>300)
27            billpay=100*1.20+200 *2+(units-300)*3;
28        return billpay;
29    }
30
31
32 }
33
34
35 }

```

**output:**

```

1 enter number of units
2 600
3 Bill to pay : 1420.0

```

That's it. Any doubts do let us know.

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