# Electricity Bill Programming

import java.util.Scanner;

class ElectricityBill {

int consumerNo;

String consumerName;

int previousReading;

int currentReading;

String connectionType; // "domestic" or "commercial"

void getInput() {

Scanner sc = new Scanner(System.in);

System.out.print("Enter Consumer Number: ");

consumerNo = sc.nextInt();

sc.nextLine(); // consume newline

System.out.print("Enter Consumer Name: ");

consumerName = sc.nextLine();

System.out.print("Enter Previous Month Reading: ");

previousReading = sc.nextInt();

System.out.print("Enter Current Month Reading: ");

currentReading = sc.nextInt();

sc.nextLine(); // consume newline

System.out.print("Enter Connection Type (domestic/commercial): ");

connectionType = sc.nextLine();

}

void calculateBill() {

int units = currentReading - previousReading;

double amount = 0;

if (connectionType.equalsIgnoreCase("domestic")) {

if (units <= 100) {

amount = units \* 1;

} else if (units <= 200) {

amount = 100 \* 1 + (units - 100) \* 2.5;

} else if (units <= 500) {

amount = 100 \* 1 + 100 \* 2.5 + (units - 200) \* 4;

} else {

amount = 100 \* 1 + 100 \* 2.5 + 300 \* 4 + (units - 500) \* 6;

}

} else if (connectionType.equalsIgnoreCase("commercial")) {

if (units <= 100) {

amount = units \* 2;

} else if (units <= 200) {

amount = 100 \* 2 + (units - 100) \* 4.5;

} else if (units <= 500) {

amount = 100 \* 2 + 100 \* 4.5 + (units - 200) \* 6;

} else {

amount = 100 \* 2 + 100 \* 4.5 + 300 \* 6 + (units - 500) \* 7;

}

} else {

System.out.println("Invalid Connection Type!");

return;

}

System.out.println("\n----- Electricity Bill -----");

System.out.println("Consumer Number: " + consumerNo);

System.out.println("Consumer Name: " + consumerName);

System.out.println("Connection Type: " + connectionType);

System.out.println("Units Consumed: " + units);

System.out.println("Amount to be paid: Rs. " + amount);

}

public static void main(String[] args) {

ElectricityBill eb = new ElectricityBill();

eb.getInput();

eb.calculateBill();

}

}

Output:

Enter Consumer Number: 12345

Enter Consumer Name: john

Enter Previous Month Reading: 1500

Enter Current Month Reading: 1725

Enter Connection Type (domestic/commercial): domestic

----- Electricity Bill -----

Consumer Number: 12345

Consumer Name: john

Connection Type: domestic

Units Consumed: 225

Amount to be paid: Rs. 450.0