import java.util.Scanner;

public class Main {

static class ElectricityBill {

int consumerNumber;

String consumerName;

int prevReading;

int currReading;

String connectionType;

int units;

double billAmount;

void getInput() {

Scanner sc = new Scanner(System.in);

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

consumerNumber = sc.nextInt();

sc.nextLine(); // consume newline

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

consumerName = sc.nextLine();

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

prevReading = sc.nextInt();

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

currReading = sc.nextInt();

sc.nextLine();

System.out.print("Enter Connection Type (Domestic/Commercial): ");

connectionType = sc.nextLine();

}

void calculateBill() {

units = currReading - prevReading;

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

if (units <= 100)

billAmount = units \* 1;

else if (units <= 200)

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

else if (units <= 500)

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

else

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

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

if (units <= 100)

billAmount = units \* 2;

else if (units <= 200)

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

else if (units <= 500)

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

else

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

} else {

System.out.println("Invalid connection type.");

}

}

void displayBill() {

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

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

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

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

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

System.out.printf("Bill Amount: Rs. %.2f\n", billAmount);

}

}

public static void main(String[] args) {

ElectricityBill eb = new ElectricityBill();

eb.getInput();

eb.calculateBill();

eb.displayBill();

}

}

**Output:**

Enter Consumer Number: 102

Enter Consumer Name: Anu

Enter Previous Reading: 2300

Enter Current Reading: 2500

Enter Connection Type (Domestic/Commercial): Domestic

--- Electricity Bill ---

Consumer Number: 102

Consumer Name: Anu

Connection Type: Domestic

Units Consumed: 200

Bill Amount: Rs. 350.00