**import java.util.Scanner;**

**public class ElectricityBillGenerator {**

**public static void main(String[] args) {**

**Scanner scanner = new Scanner(System.in);**

**// Input old and current readings**

**System.out.print("Enter old reading: ");**

**int oldReading = scanner.nextInt();**

**System.out.print("Enter current reading: ");**

**int currentReading = scanner.nextInt();**

**// Calculate the consumption**

**int consumption = currentReading - oldReading;**

**// Validate consumption**

**if (consumption < 0) {**

**System.out.println("Error: Current reading must be greater than or equal to old reading.");**

**return;**

**}**

**// Initialize the bill amount**

**double billAmount = 0;**

**// Calculate the bill based on consumption using if-else-if ladder**

**if (consumption >= 0 && consumption <= 50) {**

**billAmount = consumption \* 1;**

**} else if (consumption > 50 && consumption <= 100) {**

**billAmount = (50 \* 1) + ((consumption - 50) \* 2);**

**} else if (consumption > 100 && consumption <= 200) {**

**billAmount = (50 \* 1) + (50 \* 2) + ((consumption - 100) \* 3);**

**} else if (consumption > 200 && consumption <= 400) {**

**billAmount = (50 \* 1) + (50 \* 2) + (100 \* 3) + ((consumption - 200) \* 4);**

**} else {**

**billAmount = (50 \* 1) + (50 \* 2) + (100 \* 3) + (200 \* 4) + ((consumption - 400) \* 5);**

**}**

**// Display the bill amount**

**System.out.printf("The electricity bill is: Rs."+ billAmount);**

**// Close the scanner**

**scanner.close();**

**}**

**}**