import java.util.Scanner;

public class ElectricityBillCalculator {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Input: Number of units consumed

System.out.print("Enter the number of units consumed: ");

double units = scanner.nextDouble();

// Tariff rates (for example purposes, you may need to adjust these rates)

double rateForFirst100Units = 1.50; // Rate for the first 100 units

double rateForNext100Units = 2.00; // Rate for the next 100 units

double rateForUnitsAbove200 = 3.00; // Rate for units above 200

double billAmount = calculateBill(units, rateForFirst100Units, rateForNext100Units, rateForUnitsAbove200);

// Output: Total bill amount

System.out.printf("The total bill amount for %.2f units is: $%.2f%n", units, billAmount);

scanner.close();

}

public static double calculateBill(double units, double rateForFirst100Units, double rateForNext100Units, double rateForUnitsAbove200) {

double bill = 0.0;

if (units <= 100) {

bill = units \* rateForFirst100Units;

} else if (units <= 200) {

bill = (100 \* rateForFirst100Units) + ((units - 100) \* rateForNext100Units);

} else {

bill = (100 \* rateForFirst100Units) + (100 \* rateForNext100Units) + ((units - 200) \* rateForUnitsAbove200);

}

return bill;

}

}

OUTPUT : 