import java.util.Scanner;

public class SGPA\_Calculator {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Input the number of subjects

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

int numSubjects = scanner.nextInt();

// Arrays to store credits and grades

double[] credits = new double[numSubjects];

double[] grades = new double[numSubjects];

// Input credits and grades

for (int i = 0; i < numSubjects; i++) {

System.out.print("Enter credit hours for subject " + (i + 1) + ": ");

credits[i] = scanner.nextDouble();

System.out.print("Enter grade for subject " + (i + 1) + " (on a scale of 0 to 10): ");

grades[i] = scanner.nextDouble();

}

// Calculate SGPA

double totalCredits = 0;

double weightedGradesSum = 0;

for (int i = 0; i < numSubjects; i++) {

weightedGradesSum += grades[i] \* credits[i];

totalCredits += credits[i];

}

double sgpa = weightedGradesSum / totalCredits;

// Display the SGPA

System.out.printf("Your SGPA is: %.2f%n", sgpa);

scanner.close();

}

}





