package student;

import java.util.Scanner;

public class StudentGradingSystem {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println("==== Student Grading System ====\n");

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

String name = scanner.nextLine();

final int SUBJECTS = 5;

int[] marks = new int[SUBJECTS];

int totalMarks = 0;

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

System.out.print("Enter marks for Subject " + (i + 1) + ": ");

int inputMark = scanner.nextInt();

// Validate input

if (inputMark < 0 || inputMark > 100) {

System.out.println("Invalid mark. Please enter between 0 and 100.");

i--; // redo this iteration

continue;

}

marks[i] = inputMark;

totalMarks += inputMark;

}

double percentage = (double) totalMarks / (SUBJECTS \* 100) \* 100;

char grade = calculateGrade(percentage);

// Display result

System.out.println("\n--- Result ---");

System.out.println("Student Name: " + name);

System.out.println("Total Marks : " + totalMarks + "/" + (SUBJECTS \* 100));

System.out.printf("Percentage : %.2f%%\n", percentage);

System.out.println("Grade : " + grade);

scanner.close();

}

public static char calculateGrade(double percentage) {

if (percentage >= 90) return 'A';

else if (percentage >= 80) return 'B';

else if (percentage >= 70) return 'C';

else if (percentage >= 60) return 'D';

else if (percentage >= 50) return 'E';

else return 'F';

}

}