import java.util.Scanner;

import java.text.DecimalFormat; // For output formatting

public class ExamProgram {

public static void main(String[] args) {

final double COURSEWORK\_WEIGHT = 0.5;

final double FINAL\_EXAM\_WEIGHT = 0.5;

final int COURSEWORK\_ASSESSMENTS = 5; // Assuming 5 assessments (ass1, ass2, ass3, cat1, cat2)

final double PASS\_COURSEWORK\_THRESHOLD = 2.0 / 3.0 \* COURSEWORK\_ASSESSMENTS; // 2/3 of coursework

double ass1, ass2, ass3, cat1, cat2, finalExam, coursework, totalScore;

Scanner scanner = new Scanner(System.in);

DecimalFormat df = new DecimalFormat("#.##"); // Format output to two decimal places

int choice;

do {

System.out.println("\nExam Program Menu:\n");

System.out.println("1. View coursework results");

System.out.println("2. View exam results");

System.out.println("3. Exit the program\n");

System.out.print("Enter your choice: ");

choice = scanner.nextInt();

switch (choice) {

case 1:

// View coursework results

System.out.println("\nEnter coursework assessment grades:\n");

System.out.print("ass1: ");

ass1 = scanner.nextDouble();

System.out.print("ass2: ");

ass2 = scanner.nextDouble();

System.out.print("ass3: ");

ass3 = scanner.nextDouble();

System.out.print("cat1: ");

cat1 = scanner.nextDouble();

System.out.print("cat2: ");

cat2 = scanner.nextDouble();

coursework = ass1 + ass2 + ass3 + cat1 + cat2;

System.out.println("\nCoursework total: " + df.format(coursework));

break;

case 2:

// View exam results

System.out.print("\nEnter final exam grade: ");

finalExam = scanner.nextDouble();

totalScore = coursework \* COURSEWORK\_WEIGHT + finalExam \* FINAL\_EXAM\_WEIGHT;

System.out.println("\nTotal score: " + df.format(totalScore));

break;

case 3:

System.out.println("\nExiting the program...\n");

break;

default:

System.out.println("\nInvalid choice. Please try again.\n");

}

} while (choice != 3);

// Decision function (assuming grades are already obtained)

if (coursework < PASS\_COURSEWORK\_THRESHOLD) {

System.out.println("\nStudent must repeat the course irrespective of final exam grade.\n");

} else {

System.out.println("\nStudent has met the coursework requirement.\n");

}

scanner.close(); // Close the Scanner object

}

}