**TASK 1**

**Student Grade Track**

import java.util.ArrayList;

import java.util.Scanner;

import java.util.Collections;

public class StudentGrades {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

ArrayList<Integer> grades = new ArrayList<>();

System.out.println("Enter the number of students: ");

int numStudents = scanner.nextInt();

// Taking grades as input

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

System.out.print("Enter grade for student " + (i + 1) + ": ");

int grade = scanner.nextInt();

grades.add(grade);

}

// Calculate average, highest, and lowest scores

double average = calculateAverage(grades);

int highest = Collections.max(grades);

int lowest = Collections.min(grades);

// Display results

System.out.println("\nGrades Summary:");

System.out.println("Average Score: " + average);

System.out.println("Highest Score: " + highest);

System.out.println("Lowest Score: " + lowest);

scanner.close();

}

// Method to calculate the average of grades

private static double calculateAverage(ArrayList<Integer> grades) {

int sum = 0;

for (int grade : grades) {

sum += grade;

}

return (double) sum / grades.size();

}

}