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#STUDENT GRADE TRACKER(TASK-2)
import java.util.ArrayList;
import java.util.Scanner;
public class StudentGradeTracker {
  public static double calculateAverage(ArrayList<Double> grades) {
     double sum = 0.0;
     for (double grade : grades) {
       sum += grade;
     return sum / grades.size();
  }
  public static String getLetterGrade(double average) {
     if (average \geq 90) {
       return "A";
     } else if (average \geq 80) {
       return "B";
     } else if (average >= 70) {
       return "C";
     } else if (average >= 60) {
       return "D";
     } else {
       return "F";
     }
  public static double calculateGPA(double average) {
     if (average >= 90) {
       return 4.0;
     } else if (average >= 80) {
       return 3.0;
     } else if (average >= 70) {
       return 2.0:
     } else if (average >= 60) {
       return 1.0;
     } else {
       return 0.0;
     }
  public static void main(String[] args) {
     Scanner scanner = new Scanner(System.in);
     ArrayList<Double> grades = new ArrayList<>();
     System.out.println("Student Grade Tracker Program!");
     while (true) {
       System.out.print("Enter a grade (or type 'done' to finish): ");
       String input = scanner.next();
       if (input.equalsIgnoreCase("done")) {
          break;
       }
       try {
          double grade = Double.parseDouble(input);
          if (grade >= 0 && grade <= 100) {
             grades.add(grade);
          } else {
             System.out.println("Please enter a grade between 0 and 100.");
       } catch (NumberFormatException e) {
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System.out.println("Invalid input. Please enter a valid grade or 'done' to finish.");
       }
     }
     if (grades.isEmpty()) {
       System.out.println("No grades were entered.");
    } else {
       double average = calculateAverage(grades);
       String letterGrade = getLetterGrade(average);
       double gpa = calculateGPA(average);
       System.out.printf("Average Grade: %.2f%n", average);
       System.out.println("Letter Grade: " + letterGrade);
       System.out.printf("GPA: %.2f%n", gpa);
    }
     scanner.close();
}
#OUTPUT
Student Grade Tracker Program!
Enter a grade (or type 'done' to finish): 98
Enter a grade (or type 'done' to finish): 94
Enter a grade (or type 'done' to finish): 93
Enter a grade (or type 'done' to finish): done
Average Grade: 95.00
Letter Grade: A
GPA: 4.00
```