Main.java | Output

```java
import java.util.*;

public class StudentGradeTracker {

    public static void main
        (String[] args) {
        Scanner scanner = new
            Scanner(System.in);

        System.out.println("Welcome
            to Student Grade
            Tracker!");

        // Initialize variables
        List<Double> grades = new
            ArrayList<>();
        double sum = 0.0;
        int numOfGrades = 0;

        // Input grades until the
            user decides to stop
        boolean continueInput =
            true;
        while (continueInput) {
            System.out.print("Enter
                grade (or -1 to
                finish): ");
            double grade = scanner
```

Run

Main.java | Output

```
                .nextDouble();

            if (grade == -1) {
                continueInput =
                 false;
            } else {
                grades.add(grade);
                sum += grade;
                numOfGrades++;
            }
        }

        // Calculate average grade
        double average = 0.0;
        if (numOfGrades > 0) {
            average = sum /
                numOfGrades;
        }

        // Determine letter grade
        String letterGrade =
            calculateLetterGrade
            (average);

        // Display results
        System.out.println("
            Grade Report ====
        System.out.println("Number
```

Run

Main.java | Output

```
27          }
28      }
29
30      // Calculate average grade
31      double average = 0.0;
32      if (numOfGrades > 0) {
33          average = sum /
                numOfGrades;
34      }
35
36      // Determine letter grade
37      String letterGrade =
            calculateLetterGrade
            (average);
38
39      // Display results
40      System.out.println("\n=====
            Grade Report =====");
41      System.out.println("Number
            of grades: " +
            numOfGrades);
42      System.out.println("Grades
            entered: " + grades);
43      System.out.println("Average
            grade: " + average);
44      System.out.println("
            grade: " + letter
```

Run

Main.java | Output

```
                grade: " + letterGrade
                );
45
46          scanner.close();
47      }
48
49      // Method to calculate letter
            grade based on average
50      private static String
            calculateLetterGrade(double
            average) {
51          if (average >= 90.0) {
52              return "A";
53          } else if (average >= 80.0)
                {
54              return "B";
55          } else if (average >= 70.0)
                {
56              return "C";
57          } else if (average >= 60.0)
                {
58              return "D";
59          } else {
60              return "F";
61          }
62      }
63  }
64
```

Run

Main.java | Output

```
java -cp /tmp/Z1LPONze5L
    /StudentGradeTracker
Welcome to Student Grade Tracker!
Enter grade (or -1 to finish): 2
Enter grade (or -1 to finish): 6
Enter grade (or -1 to finish): 1
Enter grade (or -1 to finish): 6
Enter grade (or -1 to finish): 7
Enter grade (or -1 to finish): 8
Enter grade (or -1 to finish): 9
Enter grade (or -1 to finish): 0
Enter grade (or -1 to finish): -1

===== Grade Report =====
Number of grades: 8
Grades entered: [2.0, 6.0, 1.0, 6.0, 7.0,
    8.0, 9.0, 0.0]
Average grade: 4.875
Overall grade: F

=== Code Execution Successful ===
```