```
Import java.util.ArrayList;
Import java.util.Scanner;

Public class StudentGrades {

  Public static void main(String[] args) {
    // Create an ArrayList to store grades
    ArrayList<Double> grades = new ArrayList<>();
    Scanner scanner = new Scanner(System.in);

    System.out.println("Enter student grades (type 'done' to finish):");

    // Loop to collect grades from the teacher
    While (true) {
      String input = scanner.nextLine();

      If (input.equalsIgnoreCase("done")) {
        Break;
      }

      Try {
        Double grade = Double.parseDouble(input);
        If (grade < 0 || grade > 100) {
          System.out.println("Grade must be between 0 and 100. Please try again.");
        } else {
          Grades.add(grade);
```

```
        }
    } catch (NumberFormatException e) {
        System.out.println("Invalid input. Please enter a valid number or 'done' to finish.");
    }
}

// Check if there are any grades to process
If (grades.isEmpty()) {
    System.out.println("No grades entered. Program will exit.");
    Return;
}

// Compute average, highest, and lowest scores
Double total = 0;
Double highest = grades.get(0);
Double lowest = grades.get(0);

For (double grade : grades) {
    Total += grade;
    If (grade > highest) {
        Highest = grade;
    }
    If (grade < lowest) {
        Lowest = grade;
    }
}
```

```
        Double average = total / grades.size();

        // Display results
        System.out.println("\nSummary of Grades:");
        System.out.printf("Average Grade: %.2f\n", average);
        System.out.printf("Highest Grade: %.2f\n", highest);
        System.out.printf("Lowest Grade: %.2f\n", lowest);

        Scanner.close();
    }
}
```