

```

package company.com;

import java.util.Scanner;
public class task1 {
    public static void main(String[] args) {
        Scanner sr = new Scanner(System.in);

        System.out.print("Enter the number of students: ");
        int numberOfStudents = sr.nextInt();

        int[] grades = new int[numberOfStudents];

        for (int i = 0; i < numberOfStudents; i++) {
            while (true) {
                System.out.print("Enter grade for student" + i + " : ");
                int grade = sr.nextInt();

                if (grade >= 0 && grade <= 100) {
                    grades[i] = grade;
                    break;
                } else {
                    System.out.println("Invalid grade!");
                }
            }
        }
        System.out.println("\nSummary of Grades:");
        double average = calculateAverage(grades);
        System.out.println("Average Grade: " + average);

        int highest = findHighest(grades);
        System.out.println("Highest Grade: " + highest);

        int lowest = findLowest(grades);
        System.out.println("Lowest Grade: " + lowest);

        sr.close();
    }
    public static double calculateAverage(int[] grades) {
        int sum = 0;
        for (int grade : grades) {
            sum += grade;
        }
        return (double) sum / grades.length;
    }
    public static int findHighest(int[] grades) {
        int highest = grades[0];
        for (int grade : grades) {
            if (grade > highest) {
                highest = grade;
            }
        }
    }
}

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    }  
    return highest;  
}  
public static int findLowest(int[] grades) {  
    int lowest = grades[0];  
    for (int grade : grades) {  
        if (grade < lowest) {  
            lowest = grade;  
        }  
    }  
    return lowest;  
}  
}
```