Clarissa Kuter

CSC320 Programming I

Reginald Haseltine

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Capture grade Statistics Using For-Loop

start

    Declarations

        double studentGrade

        double gradeAverage = 0

        double totalGrade = 0

        double maximumGrade = 0

        double minimumGrade = 999999

        int i;

    for (i = 0; i < 10; ++i) {

        output "Input grade in 0.00 format: "

        input studentGrade

        totalGrade = totalGrade + studentGrade

        if (studentGrade > maximumGrade) {

            maximumGrade = studentGrade

        }

        if (studentGrade < minimumGrade) {

            minimumGrade = studentGrade

        }

    }

    gradeAverage = totalGrade / 10

output "Based on the submitted grades, the following information has been calculated:"

output "The maximum grade is ", maximumGrade, "."

output "The minimum grade is ", minimumGrade, "."

output "The average of all the grades is ", gradeAverage, "."

stop

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

```java
import java.util.Scanner;

public class gradeStatistics {

    public static void main(String[] args) {
        try (Scanner stella = new Scanner(System.in)) {
            double studentGrade;
            double gradeAverage = 0;
            double totalGrade = 0; //sum of all grades added together
            double maximumGrade = 0;
            double minimumGrade = 999999;
            int i;

            for (i = 0; i < 10; ++i) {
                System.out.print("Input grade in 0.00 format: ");
                studentGrade = stella.nextDouble();
                totalGrade = totalGrade + studentGrade;
                if (studentGrade > maximumGrade) {
                    maximumGrade = studentGrade;
                }
                if (studentGrade < minimumGrade) {
                    minimumGrade = studentGrade;
                }
            }

            gradeAverage = totalGrade / 10;

            System.out.println();
            System.out.println("Based on the submitted grades, the following information has been calculated:");
            System.out.println("The maximum grade is " + maximumGrade + ".");
            System.out.println("The minimum grade is " + minimumGrade + ".");
            System.out.println("The average of all the grades is " + gradeAverage + ".");
        }

    }
}
```

Problems   @ Javadoc   Declaration   Console ✕

<terminated> gradeStatistics [Java Application] C:\Users\Jinyume\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (Mar 13, 2022, 7:47:02 PM – 7:47:31 PM)

```
Input grade in 0.00 format: 0.56
Input grade in 0.00 format: 4.86
Input grade in 0.00 format: 2.60
Input grade in 0.00 format: 3.09
Input grade in 0.00 format: 7.35
Input grade in 0.00 format: 8.02
Input grade in 0.00 format: 5.50
Input grade in 0.00 format: 5.00
Input grade in 0.00 format: 0.01
Input grade in 0.00 format: 3.40

Based on the submitted grades, the following information has been calculated:
The maximum grade is 8.02.
The minimum grade is 0.01.
The average of all the grades is 4.039.
```