

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

Package Ex...

Project Expl...

Calculate Average Witholding

Capture Grade Statistics Using For-loop

JRE System Library [JavaSE-17]

src

(default package)

gradeStatistics.java

Car Data and MPG

HelloWorld

Name and Address

gradeStatistics.java

```
1 import java.util.Scanner;
2
3 public class gradeStatistics {
4
5     public static void main(String[] args) {
6         try (Scanner stella = new Scanner(System.in)) {
7             double studentGrade;
8             double gradeAverage = 0;
9             double totalGrade = 0; //sum of all grades added together
10            double maximumGrade = 0;
11            double minimumGrade = 999999;
12            int i;
13
14            for (i = 0; i < 10; ++i) {
15                System.out.print("Input grade in 0.00 format: ");
16                studentGrade = stella.nextDouble();
17                totalGrade = totalGrade + studentGrade;
18                if (studentGrade > maximumGrade) {
19                    maximumGrade = studentGrade;
20                }
21                if (studentGrade < minimumGrade) {
22                    minimumGrade = studentGrade;
23                }
24            }
25
26            gradeAverage = totalGrade / 10;
27
28            System.out.println();
29            System.out.println("Based on the submitted grades, the following information has been calculated:");
30            System.out.println("The maximum grade is " + maximumGrade + ".");
31            System.out.println("The minimum grade is " + minimumGrade + ".");
32            System.out.println("The average of all the grades is " + gradeAverage + ".");
33        }
34    }
35 }
36
37 }
38
```

Outline

gradeStatistics

main(String[]) : void

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.

Writable

Smart Insert

15 : 66 : 437