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Assignment 4.2

CSD402 Java for Programmers

Code: //Joel Atkinson Assignment 4.2 Java for Programmers CSD402 August 28, 2025  
/\*The purpose of this assignment is to write 4 overloaded methods that return the average of short, int, long, double  
arrays. \*/  
  
public class AverageCalculator {  
 public static short average(short[] array) {  
 short sum = 0;  
 for (short num : array) {  
 sum += num;  
 }  
 return (short) (sum / array.length);  
 }  
  
 public static int average(int[] array) {  
 int sum = 0;  
 for (int num : array) {  
 sum += num;  
 }  
 return sum / array.length;  
 }  
 public static long average(long[] array) {  
 long sum = 0;  
 for (long num : array) {  
 sum += num;  
 }  
 return sum / array.length;  
 }  
  
 public static double average(double[] array) {  
 double sum = 0.0;  
 for (double num : array) {  
 sum += num;  
 }  
 return sum / array.length;  
 }  
  
 public static void main(String[] args) {  
 short[] shortArray = {26, 42, 95,};  
 int[] intArray = {4785547, 5769086, 6306723, 7389021};  
 long[] longArray = {374859876, 564982341, 968462651, 116498365, 587625383};  
 double[] doubleArray = {3.54, 9.23, 7.82, 4.74, 9.19, 8.98};  
  
 System.*out*.println("Short array elements:");  
 for (short num : shortArray) {  
 System.*out*.print(num + " ");  
 }  
 System.*out*.println("\nAverage: " + *average*(shortArray));  
 System.*out*.println();  
  
 System.*out*.println("Int array elements:");  
 for (int num : intArray) {  
 System.*out*.print(num + " ");  
 }  
 System.*out*.println("\nAverage: " + *average*(intArray));  
 System.*out*.println();  
  
 System.*out*.println("Long array Elements:");  
 for (long num : longArray) {  
 System.*out*.print(num + " ");  
 }  
 System.*out*.println("\nAverage: " + *average*(longArray));  
 System.*out*.println();  
  
 System.*out*.println("Double array elements:");  
 for (double num : doubleArray) {  
 System.*out*.print(num + " ");  
 }  
 System.*out*.println("\nAverage: " + *average*(doubleArray));  
 System.*out*.println();  
 }  
}

Screenshot of Code running without errors and output:

A screenshot of a computer program

AI-generated content may be incorrect.