Write a Java program to calculate the average value of array elements.

public class Exercise4 {

public static void main(String[] args) {

int[] numbers = new int[]{20, 30, 25, 35, -16, 60, -100};

//calculate sum of all array elements

int sum = 0;

for(int i=0; i < numbers.length ; i++)

sum = sum + numbers[i];

//calculate average value

double average = sum / numbers.length;

System.out.println("Average value of the array elements is : " + average);

}

}

Sample Output:

Average value of the array elements is : 7.0

Write a Java program to sort a numeric array and a string array.

import java.util.Arrays;

public class Exercise1 {

public static void main(String[] args){

int[] my\_array1 = {

1789, 2035, 1899, 1456, 2013,

1458, 2458, 1254, 1472, 2365,

1456, 2165, 1457, 2456};

String[] my\_array2 = {

"Java",

"Python",

"PHP",

"C#",

"C Programming",

"C++"

};

System.out.println("Original numeric array : "+Arrays.toString(my\_array1));

Arrays.sort(my\_array1);

System.out.println("Sorted numeric array : "+Arrays.toString(my\_array1));

System.out.println("Original string array : "+Arrays.toString(my\_array2));

Arrays.sort(my\_array2);

System.out.println("Sorted string array : "+Arrays.toString(my\_array2));

}

}

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Sample Output:

Original numeric array : [1789, 2035, 1899, 1456, 2013, 1458, 2458, 1254, 1472, 2365, 1456, 2165, 1457, 2456]

Sorted numeric array : [1254, 1456, 1456, 1457, 1458, 1472, 1789, 1899, 2013, 2035, 2165, 2365, 2456, 2458]

Original string array : [Java, Python, PHP, C#, C Programming, C++]

Sorted string array : [C Programming, C#, C++, Java, PHP, Python]

Write a Java program to sum values of an array.

public class Exercise2 {

public static void main(String[] args) {

int my\_array[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};

int sum = 0;

for (int i : my\_array)

sum += i;

System.out.println("The sum is " + sum);

}

}

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Sample Output:

The sum is 55

Write a Java program to test if an array contains a specific value.

public class Exercise5 {

public static boolean contains(int[] arr, int item) {

for (int n : arr) {

if (item == n) {

return true;

}

}

return false;

}

public static void main(String[] args) {

int[] my\_array1 = {

1789, 2035, 1899, 1456, 2013,

1458, 2458, 1254, 1472, 2365,

1456, 2265, 1457, 2456};

System.out.println(contains(my\_array1, 2013));

System.out.println(contains(my\_array1, 2015));

}

}

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Sample Output:

true

false