```
File-/Users/alu/Documents/dev/intellij-projects/edu\_java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/08-98\_Arrays/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerExample.java-programming-masterclass/src/ch/publicept/MainScannerCara-programming-masterclass/src/ch/publicept/MainScannerCara-programming-masterclass/src
   1 package ch.publicept;
   3 import java.util.Scanner;
   5
   6
          * MainScannerExample
          * public static void main(String[] args)
   8
   9
 10
         * getIntegers(int numberOfArrayElements)
 11
         * getAverage(int[] array)
 12
         * <u>@author</u> created by Urs Albisser, on 2019—12—30
* <u>@version</u> 0.0.1
 13
 14
 15
 16 public class MainScannerExample {
 17
 18
 19
 20
                 // == fields ==
 21
                 private static Scanner scanner = new Scanner(System.in);
 22
 23
 24
 25
 26
                   * main()
 27
                   * @param args args
 29
 30
                 public static void main(String[] args) {
 31
32
33
34
                                initialize array = new int[5] by using the Scanner
                          int[] myIntegers = getIntegerArrayByScanner(5);
 35
                            // print arrav values
 36
                          for(int i=0; i<myIntegers.length; i++) {
    System.out.println("Element " + i + ", entered value " + myIntegers[i]);</pre>
39
                          // print mean of array values
System.out.println("The average is " + getAverage(myIntegers));
 40
41
42
                 }
43
 44
 45
 46
 47
                  * getIntegers()
                       Initialize array with individual numbers using the Scanner.
 49
                       @param arrayLength Array length
 50
                       @return Initialized array[]
 51
52
                 public static int[] getIntegerArrayByScanner(int arrayLength) {
53
54
                          int[] array = new int[arrayLength];
 55
 56
                          System.out.println("Enter " + arrayLength + " integer values...\r");
 57
 58
                           for(int i=0; i<array.length; i++) {
    System.out.print("Enter value " + (i+1) + ": ");</pre>
                                    array[i] = scanner nextInt();
 60
 61
 62
 63
                           return array;
 64
                 }
65
 66
67
 68
 69
                  * getAverage()
 70
                   * Calculate the mean of an array.
71
72
                    * @param array Array to be calculated
                                                     Average of array values
73
74
75
76
                 public static double getAverage(int[] array) {
                          int sum = 0:
 77
 78
                           for(int i=0; i<array.length; i++) {</pre>
 79
                                    sum += array[i];
 80
 81
 82
                           return (double)sum / (double)array.length; // casting int to double
```

}