

## Lab 5 – Exercise 1

### Calculating the Average

GIVENS: (*none*)

RESULT: (*none*)

INTERMEDIATE: arrValues (*reference to an array of real values*)  
n (*number of elements in the array*)  
average (*the average of the values*)

HEADER: : Main()

BODY:

(*Get the data from the user*)

printLine("Please enter a several real values on the same line.")

(arrValues, n)  $\leftarrow$  readRealLine()

(*Call to algorithm to compute the average*)

average  $\leftarrow$  caculateAverage(arrValues, n)

(*Display the result*)

printLine("The average is ", average)

GIVENS: arr (*reference to an array of real values*)  
n (*number of elements in the array*)

RESULT: avg (*the average of the values*)

INTERMEDIATE: index (*index used to traverse the array*)  
sum (*used to compute the sum of the values*)

HEADER: avg  $\leftarrow$  calculateAverage(arr, n)

BODY:

