Lab08 – Arrays and methods

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# Exercise 1

## Program Arrays

**File name:** Arrays.java

**Purpose:** To allow the user to enter 5 double values and display the average of those values.

**Packages:** java.util.Scanner

**Input:** 5 double values, which are then stored in an array (*myArray*).

**Output:** A double value representing the average of the 5 input values.

**Pseudocode:**

Algorithm Arrays

START

(**main**)

Set double[ 5 ] *myArray*

Print “Enter 5 double values”

For *i* from 0 to 4 {

Read *myArray*[ *i* ]

}

Print “Average = ” + **average**(*myArray*)

(**average**, parameter(s): integer[ ] *array*)

Set integer *sum* = 0

For *element* in *array* {

*sum* += *element*

}

Return *sum* / *array*.length

(**average**, parameter(s): double[ ] *array*)

Set double *sum* = 0

For *element* in *array* {

*sum* += *element*

}

Return *sum* / *array*.length

END Arrays

**Test run(s):**

A screen shot of a computer

Description automatically generated A black screen with white text

Description automatically generated A black screen with white text

Description automatically generated

# Exercise 2

## Program Matrix

**File name:** (file’s relative path)

**Purpose:** To have a sample from which to create external documentation.

**Packages:** (list of imported packages)

**Limitations:** (input it can’t handle, list of possible error messages, round-off error)

**Bugs:** (list of unfixed bugs)

**Input:** …

**Output:** …

**Pseudocode:**

Algorithm (program name)

START

1. Step 1
2. .
3. .
4. .

END (program name)

**Test run(s):**