

CSCI-101 Programming 1

Lab 6

INSTRUCTIONS

Change your working directory to your **labs** directory. Inside your **labs** directory create a directory named **lab6**.

In your **lab6** directory write a class named **Lab6** that contains the following:

- A method named **print** that takes an array of integers as an argument and prints each integer in the array to the screen on a single line with spaces between them. After all of the elements have been printed, a new line character is printed to the screen.
- A method named **populateFromKeyboard** that has a single parameter that holds a reference to an array of integers. The method creates a **Scanner**, asks the user to enter the number of integers equal to the length of the array, reads the values from the keyboard and stores them in the array, then closes the **Scanner** (see the **close** method in the Scanner documentation).
- A method named **getMax** that takes an array of integers as an argument and returns the largest value in the array.
- A method named **getMin** that takes an array of integers as an argument and returns the smallest value in the array.
- A method named **getMeanAverage** that takes an array of integers as an argument and returns the mean average of the elements in the array.
- A method named **main** that does the following:
 - Declares an array named **array** that can hold 5 integers.
 - Populates the array by calling **populateFromKeyboard**.
 - Prints the elements in the array by calling **print**.
 - Uses **getMax** and prints to the screen "**Max:** " followed by the largest element in the array.
 - Uses **getMin** and prints to the screen "**Min:** " followed by the smallest element in the array.
 - Uses **getMeanAverage** and prints to the screen "**Mean:** " followed by the mean average of the elements in the array.