

CSCI-101 Programming 1

Week of Oct 9 - Lab 8a

INSTRUCTIONS

Log into cs.bridgewater.edu and navigate to your **labs** directory. Make a directory named **lab8** and include the files for this lab in the **lab8** directory.

Write a class named **Lab8a** 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 an array of integers. The method creates a scanner, asks the user to enter a 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.
- 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.