

# CSCI-101 Programming 1

## Lab 20

### Lock In - Code Fast

1. Create a file named **data.txt** and add the following data to the file:

```
0
0.5
2
3.5
4
```

2. Write a program in a file named **Lab20.java** that complies with the following:
  - A. Write a method named **printArray** that takes an array of doubles as an argument and print to the screen the values in the array that is passed to the method, with spaces between them. Do not assume the length of the array passed to the method.
  - B. Write a method named **printMatrix** that takes a 2D array of integers as an argument and print to the screen the values in each row of the array with spaces between them on a separate line and prints each row on a separate line. Do not assume the number of rows or columns in the matrix that is passed to the method.
  - C. Do the following in **main()**:
    - Declare an array named **array1** that can store 5 double-precision floating-point values.
    - Read the floating-point values from **data.txt** and store them in **array1**.
    - Prints to the screen the values in **array1** using **printArray**.
    - Compute the mean average of all of the values in **array1** and store the value in a variable named **mean**.
    - Print to the screen "**Mean:** " followed the value in the variable named **mean**.
    - Declare a 3x3 2D array named **matrix1** that can hold integers.
    - Read 9 integers from the keyboard and store them in **matrix1**.
    - Prints to the screen the values in **matrix1** using **printMatrix**.
    - Compute how many values in **matrix1** are even and store the number in a variable named **count**.
    - Print to a file named **count.txt** the string "**Count:** " followed by the value in the variable named **count**.