

CSCI 101 Programming I

Lab 9c

Create a program in a file named **Lab9c.java** that satisfies the following requirements.

- The program creates a 5x5 2D array of integers named **matrix** and initializes all of the values in the array to 0.

The program prints the contents of the 2D array to the screen with each row on a separate line and spaces between the values.

- The program then sets the values in the 2D array so that when printed, the following appears:

```
0 0 0 0 0
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
```

The program prints the contents of the 2D array to the screen with each row on a separate line and spaces between the values.

- The program then sets the values in the 2D array so that when printed, the following appears:

```
0 1 2 3 4
0 1 2 3 4
0 1 2 3 4
0 1 2 3 4
0 1 2 3 4
```

The program prints the contents of the 2D array to the screen with each row on a separate line and spaces between the values.

- The program then sets the values in the 2D array so that when printed, the following appears:

```
0 1 0 0 0
1 1 1 1 1
0 1 0 0 0
0 1 0 0 0
0 1 0 0 0
```

The program prints the contents of the 2D array to the screen with each row on a separate line and spaces between the values.

The program save the contents of the 2D array to a file named matrix.txt where each row of the matrix appears on a separate line in the file and the integers are separated by commas.