

CSCI-101 Programming 1

Lab 10b

INSTRUCTIONS

Inside the **lab10** directory create a file named **Lab10.java** and a file named **students.txt**.

Use vi to add the following data to **students.txt**.

```
4
5,Draper,Dickie
2,Baker,Bernie
1,Archer,Annie
3,Cooper,Carly
```

In the **main** method in **Lab10.java** do the following.

- a. Create an instance of the **Scanner** class that can read from **students.txt**.
- b. Change the delimiters of the Scanner so that it returns tokens that are separated by commas and newline characters.
- c. Read the first integer from the file. This number indicates the number of students in the file.
- d. Create an array of Student references named **arr** whose length is equal to the number of students in the file.
- e. For each student in the file:
 - a. Read in a student's ID, last name, and first name and store them in local variables.
 - b. Create an instance of the Student class using the data read from the keyboard.
 - c. Add the newly created instance to **arr**.
- f. Use a for-each loop to iterate over the instances of the **Student** class that are in **arr**. For each instance, print to the screen the string that is returned by the instance's **toString** method.