

## Pre-Lab Write Up

Name: Aliza, Ro, Abby

Lab: #3 Letter Inventory

1. Describe in English what this program is supposed to do (not how it does it). **This should be able to be your class comment at the top of your program (you may copy and paste this into your program later):**

Create an inventory of the number of occurrences of letters in a string the user inputs.

2. List the separate tasks needed to accomplish what you described in part 1. These should be the individual methods you are going to have in your program (**both public and private methods**):

- Method 1: Main
- Method 2: setLetterCount
- Method 3: printLetterCount

3. For each of the tasks/methods in part 2, describe in English what they are supposed to do (not how they do it). Additionally, note any information each of the tasks need to accomplish their goal as well as any information they need to give back. **These should be able to be used as your method comments in your program (you may copy and paste this into your program later):**

Method Name: Main

Description	Entry point that manages user interaction (Scanner.in) and collects the input and establishes the workflow.
Parameters	
Returns	void
Exceptions	May throw error if user input is wrong.

Method Name: setLetterCount

<b>Description</b>	takes the string the user enters and counts occurrences of each letter and stores it in an array.
<b>Parameters</b>	string (userString) and initializes the array letterCount to hold counts of letters.
<b>Returns</b>	updated letterCount array.
<b>Exceptions</b>	May throw an error if user input is wrong

Method Name: printLetterCount

<b>Description</b>	Used to display count of characters.
<b>Parameters</b>	array letterCount
<b>Returns</b>	prints to console
<b>Exceptions</b>	None.

4. For each of the tasks in part 3, give a brief description in English of how you plan to accomplish the task. You may either describe it thoroughly in English, use pseudo-code, or use a combination of the 2:

Main Method: Starts the program, initializes a scanner to prompt the user. Takes the user input as a string, converts to lowercase. Calls the other two methods. Then asks if user wants to repeat this.

Method setLetterCount will iterate through each character in the input string and convert to ASCII value, check to see if its a-z only and put it in the letterCount array increasing the letter count by 1 each time.

Method printLetterCount will control the print to console by looping through the letterCount array, check to see that the count is greater than zero and the print the letter count.

5. What questions do you still have about this lab after reading through the specification and completing the pre-lab?

n/a