

Dylan Maloy  
CS150 Lab  
Lab #1 write-up  
08/31/19

### Introduction:

The goal of lab #1 was to make two programs, the first of which would take in four numbers (in the form of two inequality each containing 1 int and 1 float) and one operator. The program was to return true or false based on the given inputs, and would log “invalid operation” if the operator was not one of the supported strings. The second program was focusing on reading and writing to files using the scanner class. For each line it would take in from the input file, it would output a string with the amount of words, amount of letters, and the last word on the given line. It would then write a string with that data to the output file.

### Unit Tests:

This section is not applicable because we are not doing them for this lab.

### Output Required:

#### *Part 1:*

```
Enter the feet:
4
Enter the inches:
2
Enter the operation:
lt
Enter the feet:
6
Enter the inches:
3
true
```

```
Enter the feet:
7
Enter the inches:
4
Enter the operation:
gt
Enter the feet:
8
Enter the inches:
3
false
```

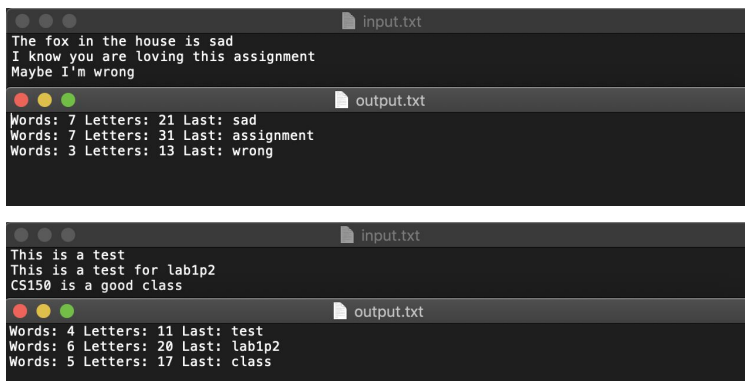
```

Enter the feet:
4
Enter the inches:
7
Enter the operation:
sjfsdkfjsfk
Enter the feet:
3
Enter the inches:
4
Incorrect Operation...

```

- Part 1 example CLI output's

## Part 2:

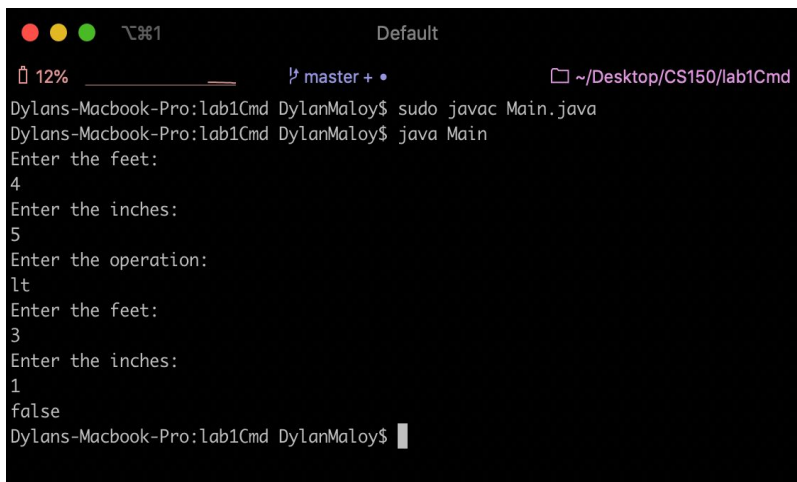


The first screenshot shows a file named 'input.txt' with the text: 'The fox in the house is sad', 'I know you are loving this assignment', and 'Maybe I'm wrong'. The corresponding 'output.txt' file shows the results: 'Words: 7 Letters: 21 Last: sad', 'Words: 7 Letters: 31 Last: assignment', and 'Words: 3 Letters: 13 Last: wrong'.

The second screenshot shows a file named 'input.txt' with the text: 'This is a test', 'This is a test for lab1p2', and 'CS150 is a good class'. The corresponding 'output.txt' file shows the results: 'Words: 4 Letters: 11 Last: test', 'Words: 6 Letters: 20 Last: lab1p2', and 'Words: 5 Letters: 17 Last: class'.

- Part 2 example file input's and output's

## Part 3:



The terminal window shows the following commands and output:

```

Dylans-Macbook-Pro:lab1Cmd DylanMaloy$ sudo javac Main.java
Dylans-Macbook-Pro:lab1Cmd DylanMaloy$ java Main
Enter the feet:
4
Enter the inches:
5
Enter the operation:
lt
Enter the feet:
3
Enter the inches:
1
false
Dylans-Macbook-Pro:lab1Cmd DylanMaloy$

```

- Command line test for part1 of the lab

**Trouble Report:**

This section is not applicable because I did not run into any trouble during the completion of the lab.

**References:**

This section is not applicable because I didn't reference any outside sources.