

Louden Demers

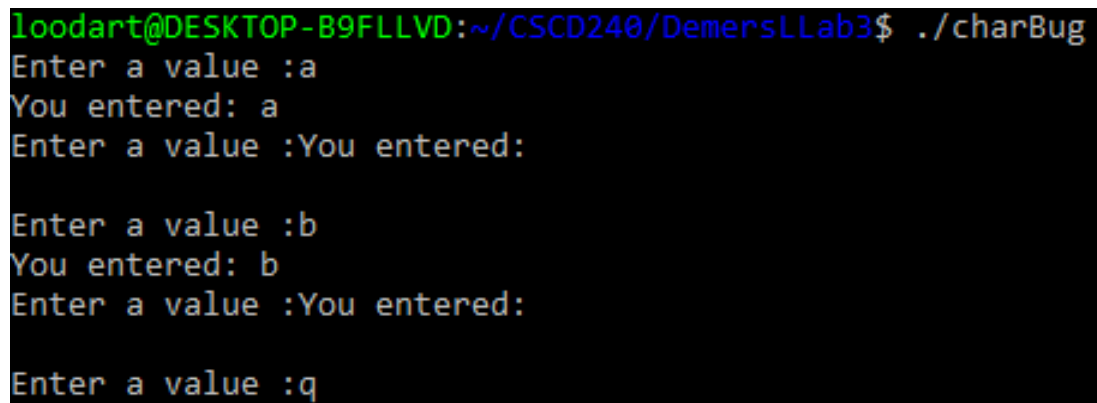
Professor Yasmin

CSCD 240-040

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### Lab 3 - Questions 4a and 5a

4.a) The problem with the program **charBug.c** is that when the user hits “enter” on their keyboard after putting a letter (such as, ‘a’), the **getchar()** recognizes this and takes in the newline character. This causes the program to print a “You entered :” followed by a newline, since the **putchar(c)** retrieves this value from **getchar()**. This causes poor formatting.



```
lloodart@DESKTOP-B9FLLVD:~/CSCD240/DemersLLab3$ ./charBug
Enter a value :a
You entered: a
Enter a value :You entered:

Enter a value :b
You entered: b
Enter a value :You entered:

Enter a value :q
```

5.a) The **gets()** function and **fgets()** function very similarly. The **gets()** function has no specification on the length of the buffer, and so this can lead to overflow. The **gets()** function also replaces the operator generated newline character ‘\n’ with NULL. On the other hand, **fgets()** has a specification on maximum string length, and it preserves the newline character and *appends* a NULL character ‘\0’ onto the end.