

CSC3320 System Level Programming

Lab Assignment 7 - Post-Lab

Due at 11:59 pm on Friday, March 5, 2021

Purpose: Learn how to get input and print out formatted results using *scanf* and *printf* separately in C.

Part 1:

1) Write a C program named as ***getPhoneNumber.c*** that prompts the user to enter a telephone number in the form (999)999-9999 and then displays the number in the form 999-999-999:

```
Enter phone number [(999)999-9999]: (404)123-4567
You entered 404-123-4567
```

Question: Execute your ***getPhoneNumber.c*** and attach a [screenshot](#) of the output. Then [write](#) the source code of ***getPhoneNumber.c*** in [your answer sheet](#) and upload your file ***getPhoneNumber.c*** to googleClassroom.

2) Write a program named as ***calcPrice.c*** that formats product information entered by the user and calculate the total amount of purchase.

```
Enter item number:583
Enter unit price:13.5
Enter quantity:2
Enter purchase date (mm/dd/yyyy):09/15/2016
Item      Unit Price      QTY  Purchase Date  Total Amount
583      $      13.50      2      9/15/2016      $      27.00
```

The item number, quantity and date should be left justified; the unit price and total amount should be right justified. Hint: Use tabs to line up the columns.

Question: Execute your ***calcPrice.c*** and attach a [screenshot](#) of the output. Then [write](#) the source code of ***calcPrice.c*** in [your answer sheet](#) and upload your file ***calcPrice.c*** to classroom.

Part 2: (Optional)

Note : This part is not for grading. But you will get some feedback.

Can you write a shell script to finish the same task as in question 1) of Part 1?

Submssion:

- Please follow the instructions below step by step, and then write a report by answering the questions and upload the report (named as **Lab7_FirstNameLastName.pdf** or **Lab7_FirstNameLastName.doc**) to Google Classroom, under the rubric Lab 7 Out-of-lab Assignment.
- Upload files **getPhoneNumber.c** and **calcPrice.c** to the rubric named “Lab7” of the classroom. **Note: if you do not upload the C files you would get zero for this assignment.**
- Please add the lab assignment NUMBER and your NAME at the top of your file sheet.