

lab assignment 7 and your Kevin Gallardo

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.

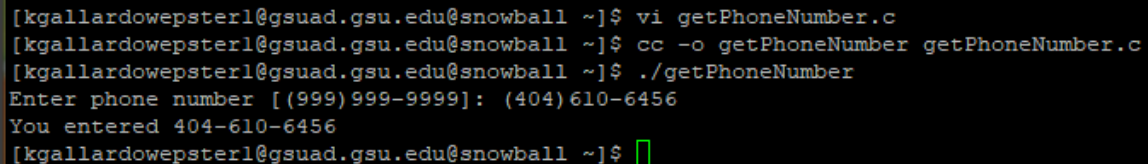
Part 1:

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.



```
[kgallardowepster1@gsuad.gsu.edu@snowball ~]$ vi getPhoneNumber.c
[kgallardowepster1@gsuad.gsu.edu@snowball ~]$ cc -o getPhoneNumber getPhoneNumber.c
[kgallardowepster1@gsuad.gsu.edu@snowball ~]$ ./getPhoneNumber
Enter phone number [(999)999-9999]: (404)610-6456
You entered 404-610-6456
[kgallardowepster1@gsuad.gsu.edu@snowball ~]$
```

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int number1, number2, number3;
```

```
    printf("Enter phone number [(999)999-9999]: ");
```

```
    scanf("(%d)%d-%d", &number1, &number2, &number3);
```

```
    printf("You entered %d-%d-%d\n", number1, number2, number3);
```

```
    return 0;
```

```
}
```

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.

```
[kgallardowepster1@gsuad.gsu.edu@snowball ~]$ ./calcPrice
Enter item number:583
Enter unit price:13.5
Enter quantity:2
Enter purchase date:09/15/2016
Item    Unit Price    QTY    Purchase Date    Total Amount
583     $ 13.50       2      09/15/2016      $ 27.00
```

```

#include <stdio.h>

int main()
{
    int itemNumber, quantity;
    double unitPrice;
    char purchaseDate[12];

    printf("Enter item number:");
    scanf("%d", &itemNumber);

    printf("Enter unit price:");
    scanf("%lf", &unitPrice);

    printf("Enter quantity:");
    scanf("%d", &quantity);

    printf("Enter purchase date:");
    scanf("%s", purchaseDate);

    printf("Item\tUnit Price\tQTY\tPurchase Date\tTotal Amount\n");
    printf("%d\t", itemNumber);
    printf("$%9.2lf\t", unitPrice);
    printf("%d\t", quantity);
    printf("%s\t", purchaseDate);
    printf("$%9.2lf\n\n", unitPrice * quantity);

    return 0;
}

```

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.