CL1002 – Programming Fundamentals Lab
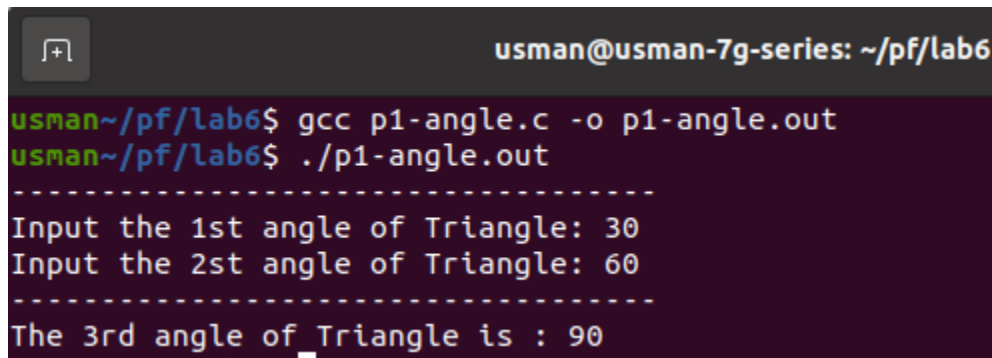## Exercise # 03

Note:

- Submit a pdf file containing all of your C code with all possible screenshots of every task outputs on Google Classroom.
- Copied task will be awarded **zero** marks.
- Note that these lab task marks could be graded through a viva in lab.
- Please submit your file in this format (roll-no-name) i.e (22P-8743-Zain.pdf).

Problem: 1

Write a program in C that contains a function to calculate third angle of triangle.

- The program should take two angles from user.
- The function should take two angles as input parameters.
- The function will calculate the third angle and return it to main.
- The program should print value of third angle in main.

```
usman@usman-7g-series: ~/pf/lab6
usman~/pf/lab6$ gcc p1-angle.c -o p1-angle.out
usman~/pf/lab6$ ./p1-angle.out
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Input the 1st angle of Triangle: 30
Input the 2st angle of Triangle: 60
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The 3rd angle of Triangle is : 90
```

Problem: 2

Write a program in C that contains a function which convert days, hours and minutes to seconds.

- The program should take the days,hours and minutes from user.
- The function should take the days,hours and minutes as input parameter.
- The function should convert the days,hours and minutes to seconds and return it to main
- The program should print the value of seconds in main function.

E.g

if the user enters 0 day,1 hour and 2 minutes the output of the program should be 3720.

If the user enter 1 day, 2 hour and 3 minutes the output of the program should be 93780.

Problem: 3

Write a program in C that contains a function to reverse a three digit number.

- The program should take the number from user.
- The function should take the number as input parameter.
- The function should reverse the number and return it to main
- The program should print the value of reverse digit in main function.

Hint: *Use modulus %*

E.g:

123 is your integer.

Output: 321

Problem: 4

Write a program that contains a function to calculates the tax and tip on a restaurant bill for a customer with a X$ meal charge. The tax should be 4.75% of the meal cost. The tip should be 10% of the total after adding the tax. Display the meal cost, tax amount, tip amount, and total bill on the screen.

- The program should take the meal amount from user.
- The function should take the bill amount as input parameter.
- The function should calculate tax and tip on a bill and display the meal cost, tax amount tip amount and total bill on screen.

```
usman@usman-7g-series: ~/pf/lab6

usman~/pf/lab6$ ./p4-bill.out
Enter Meal Price: 1000
Meal Price: 1000.000
Tax: 47.500
Tip: 104.750
Total Price: 1152.250
usman~/pf/lab6$
```