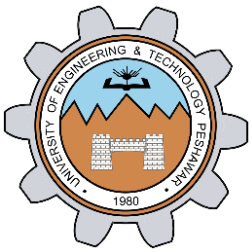
Command Line Arguments

LAB # 07



Spring 2023

CSE-204L Operating Systems Lab

Submitted by: S**uleman Shah**

Registration No.: **21PWCSE1983**

Class Section: **C**

"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work."

Submitted to:

Engr. Madiha Sher

Date:

19th May 2023

Department of Computer Systems Engineering

University of Engineering and Technology, Peshawar

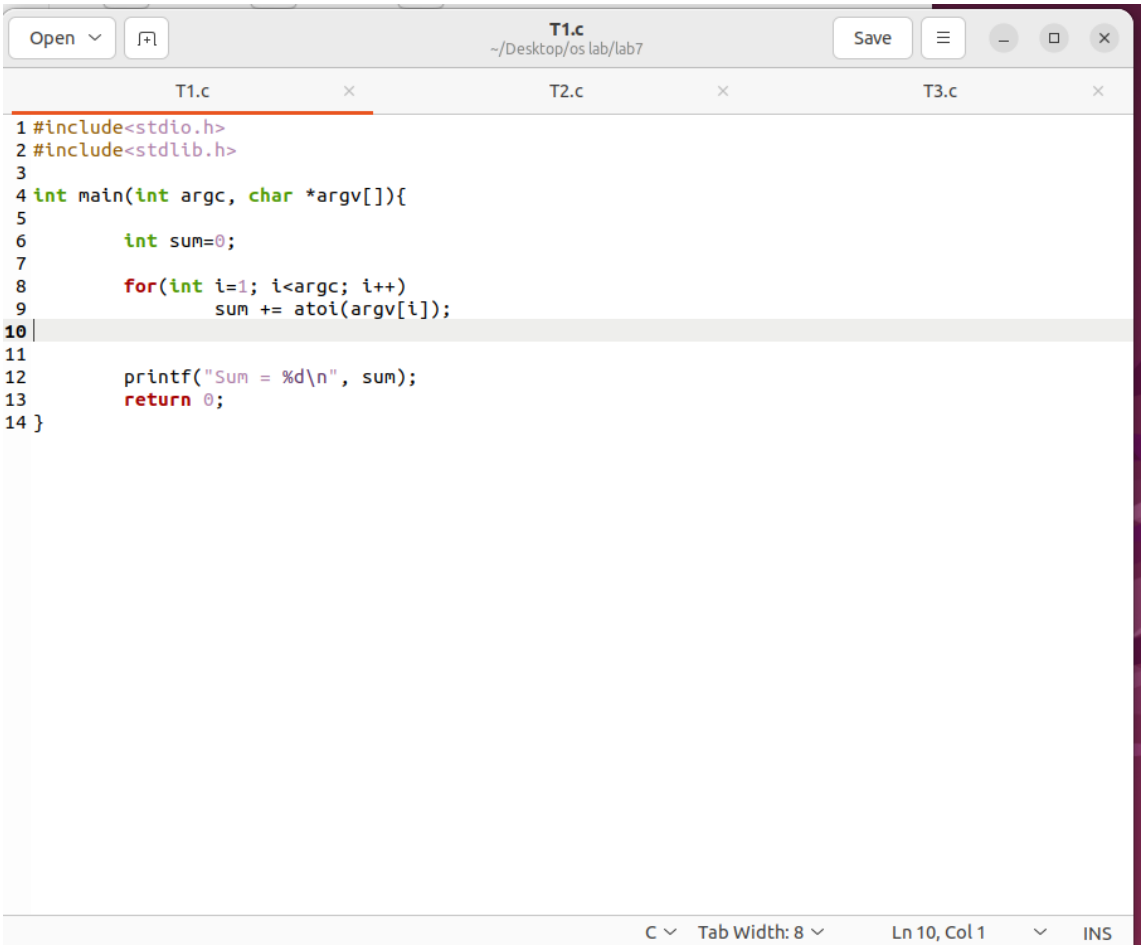
Objectives:

- To comprehend the concept of command-line parameters and their usage in C programming.
- To acquire knowledge on accessing and manipulating command-line parameters in a C program.
- To delve into process creation and execution using command-line parameters.

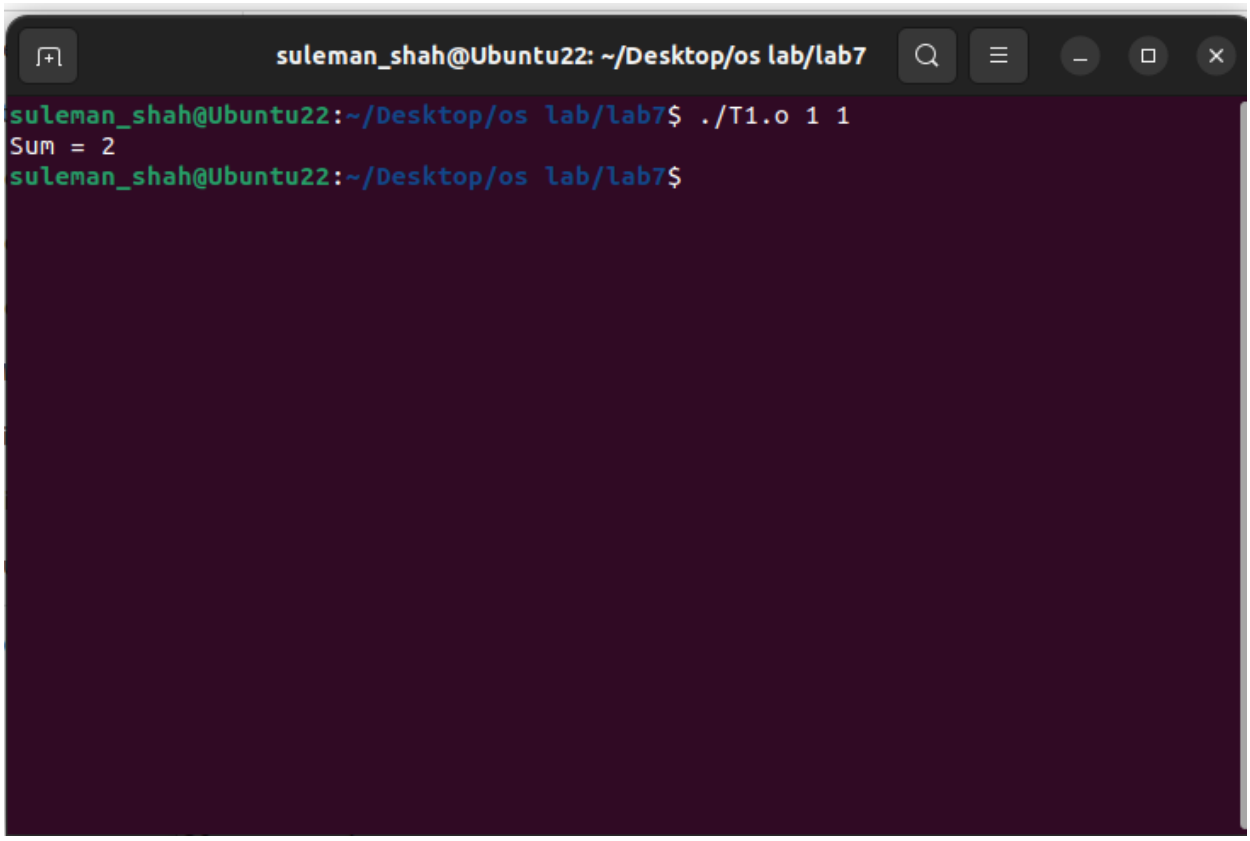
Task 1:

Write a C program that finds the sum of all CLA's.

Code Screenshot:



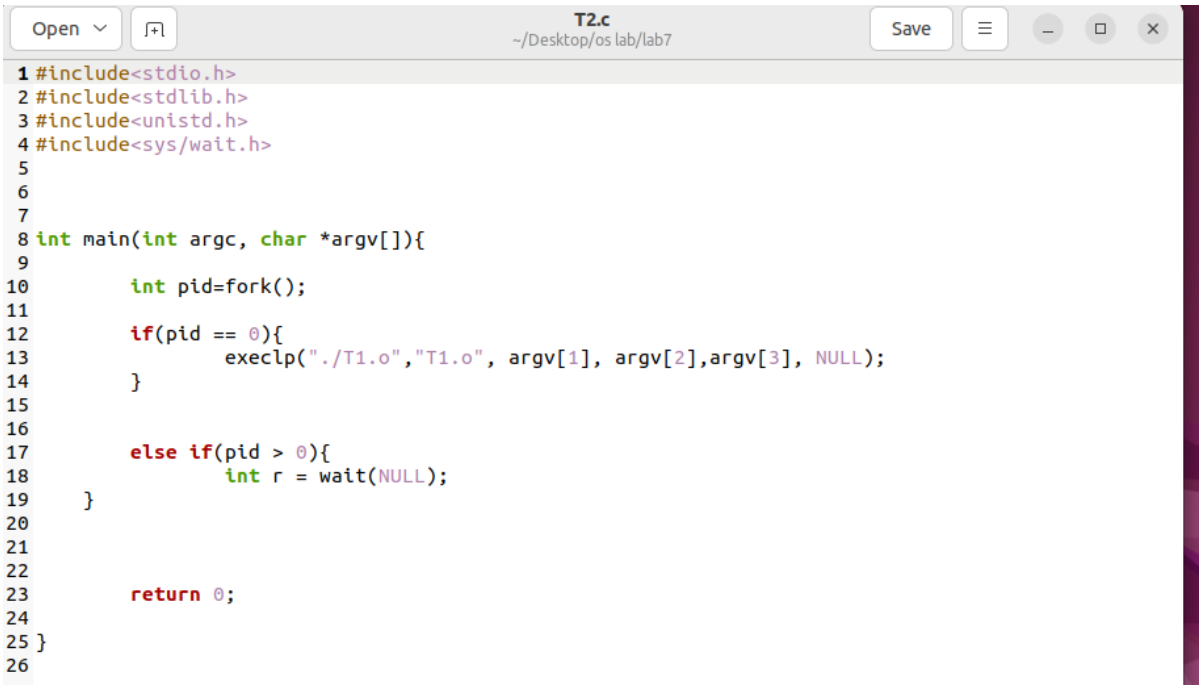
Output Screenshot:



Task 2:

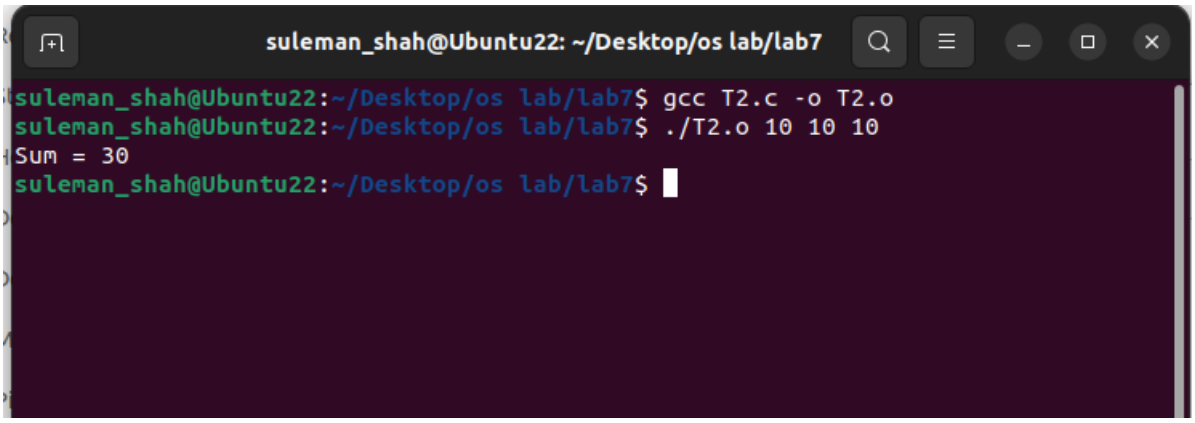
Write a C program that creates a child process & execute task 1 in child process using execlp() system call. Parent process shall wait for the child process.

Code Screenshot:




```c
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<sys/wait.h>



int main(int argc, char *argv[]){

        int pid=fork();

        if(pid == 0){
                execlp("./T1.o","T1.o", argv[1], argv[2],argv[3], NULL);
        }


        else if(pid > 0){
                int r = wait(NULL);
    }



        return 0;

}

```

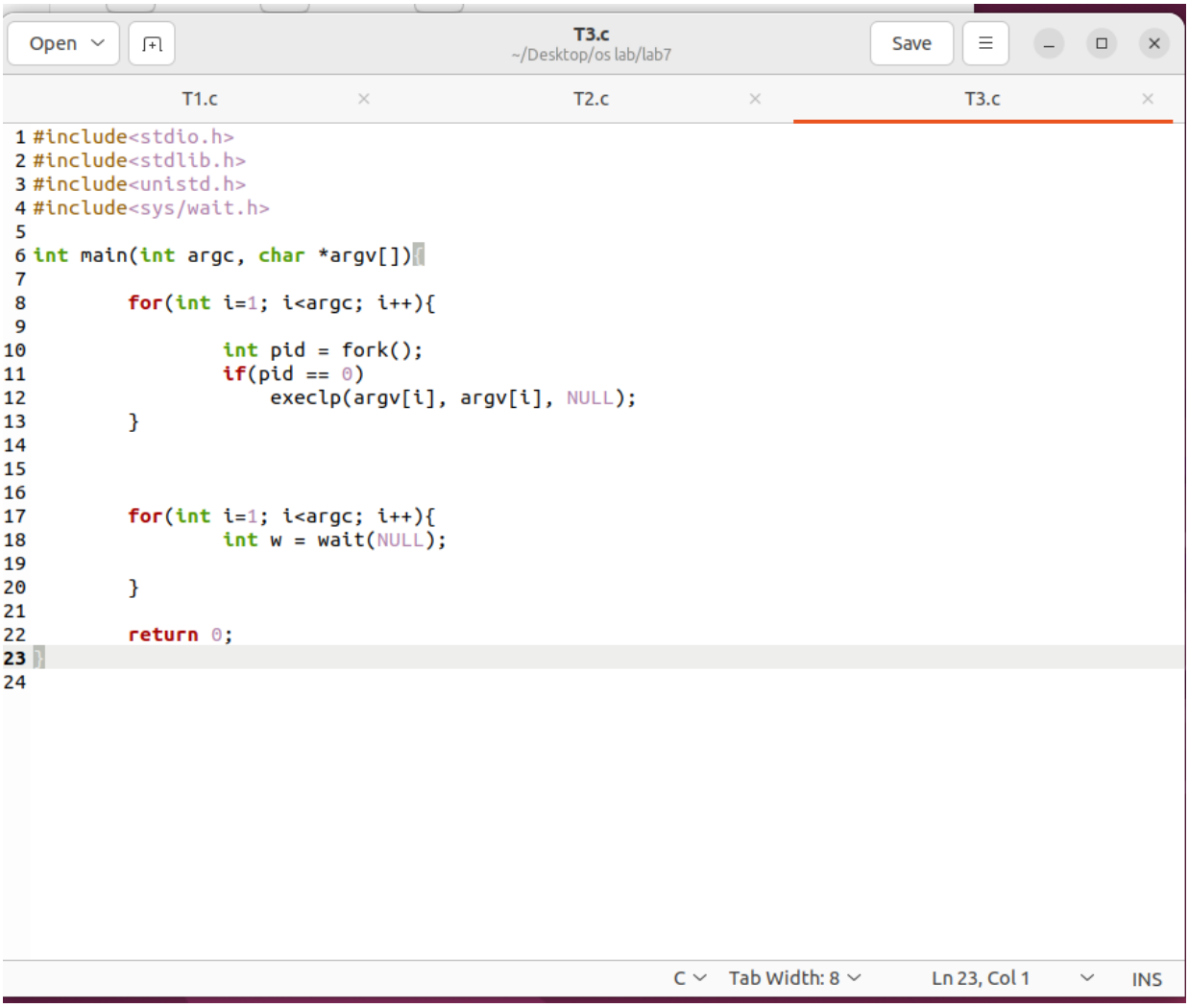
Output Screenshot:



Task 3:

Write a C program that takes built-in command on CLA's and create separate child process for each command & execute these commands in child process. Parent shall wait for the child processes.

Code Screenshot:



Output Screenshot: