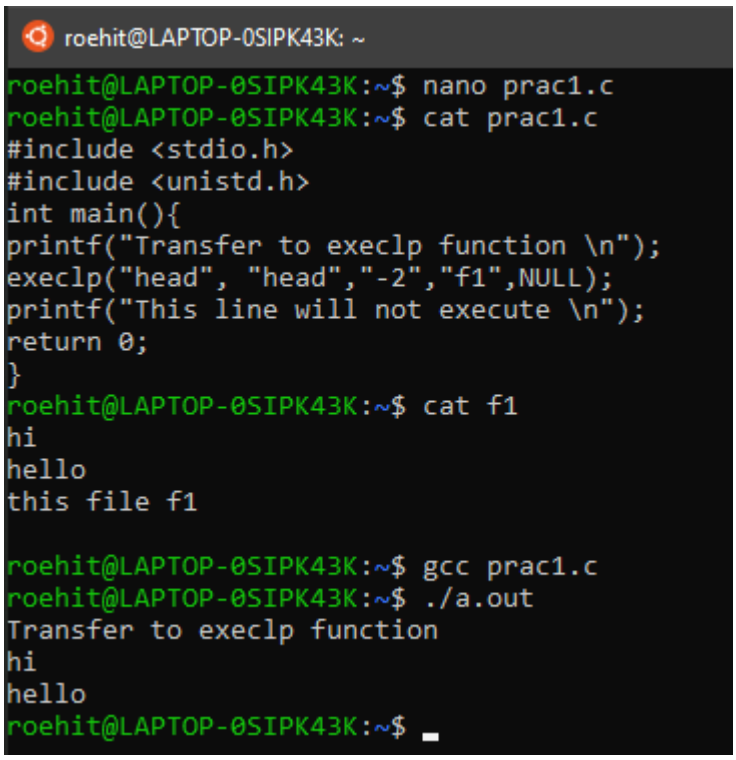
OPERATING SYSTEM

Experiment 9&10 - overlay

L2 -SWE
ROEHIT RANGANATHAN
RA1911033010017

Objective: To understand the overlay concepts and practice how to overlay the current process to new process in Linux using C. **Overlay** is the concept which enables the user to run another new process from the currently running process address space.

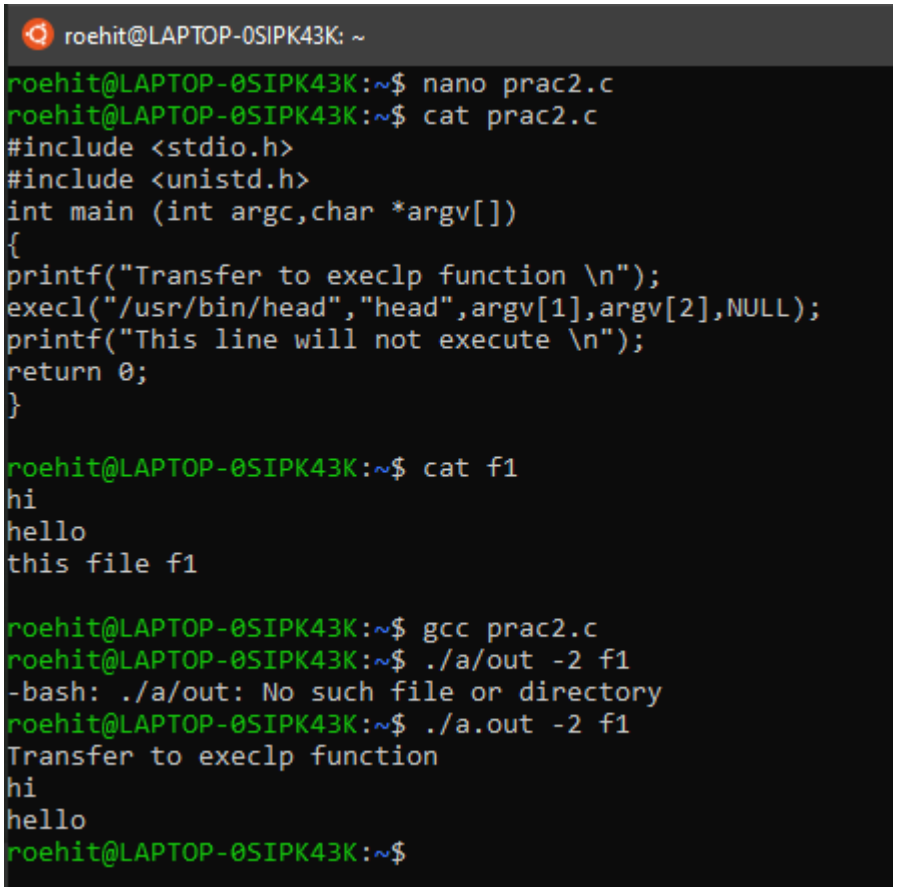
Practice questions: 1)



Why is the second printf statement not executing?

The second print statement will not work because we are executing execlp function, it will not come back to the function where it called, it comes back when there is an error in that execution. That's why the second print statement does not work.

2)


roehit@LAPTOP-0SIPK43K: ~
roehit@LAPTOP-0SIPK43K:~$ nano prac2.c
roehit@LAPTOP-0SIPK43K:~$ cat prac2.c
#include <stdio.h>
#include <unistd.h>
int main (int argc,char *argv[])
{
printf("Transfer to execlp function \n");
execl("/usr/bin/head","head",argv[1],argv[2],NULL);
printf("This line will not execute \n");
return 0;
}
roehit@LAPTOP-0SIPK43K:~$ cat f1
hi
hello
this file f1
roehit@LAPTOP-0SIPK43K:~$ gcc prac2.c
roehit@LAPTOP-0SIPK43K:~$ ./a/out -2 f1
-bash: ./a/out: No such file or directory
roehit@LAPTOP-0SIPK43K:~$ ./a.out -2 f1
Transfer to execlp function
hi
hello
roehit@LAPTOP-0SIPK43K:~$