



Experiment No.1.3

Programs using the following system calls of Linux operating system

1. fork, getpid, getppid, exit, wait, close.

2. I/O system calls of Linux operating systems (open, read, write, etc.).

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Branch: 20-IOT

Semester: 3

Subject Name: OPERATING SYSTEM Lab

UID: 20BCS4576 Section/Group: A

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Subject Code:20CSP-232

1. Aim/Overview of the practical:

To write C Programs using the following system calls of UNIX operating system fork, exec, getpid, exit, wait, close, stat, opendir, readdir.

2. Apparatus:

- a. Laptop/PC
- b. Good internet connection
- c. C language IDE
- d. Linux system



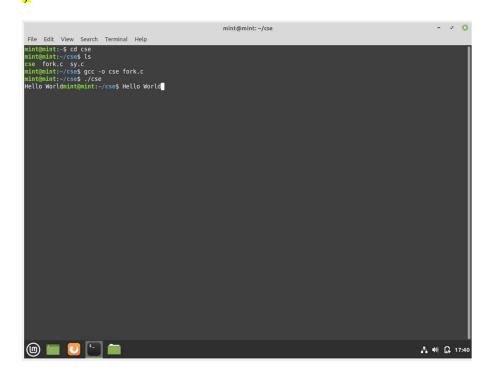




3. Code:

Code for fork commands -:

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
int main()
{
    fork();
    printf("Hello World");
    return 0;
```









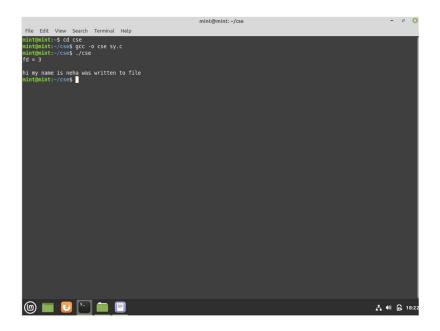
• Code for open ,read, write command :

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
#include <fcntl.h>
int main()
    char buff[80];
   char msg[80] = "Hi my name is Neha Sharma";
   int fd = open("2.txt", O RDWR | O CREAT);
   printf("fd = \%d\n", fd);
   if (fd != -1)
          write(fd, msg, sizeof(msg));
          lseek(fd, 0, SEEK SET);
          read(fd, buff, sizeof(buff));
          printf("\n%s was written to file\n", buff);
          close(fd);
   return 0;
```









Learning outcomes (What I have learnt):

- 1. What is shell programming
- 2. UNIX commands
- 3. Shell script

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			







