

Sidharth

2K18/MC/114

Experiment 2

Aim: Process creation and termination using fork(), exit() and wait() system calls.

Code:

```
#include <sys/types.h>
#include <stdio.h>
#include <unistd.h>

int main(){

    pid_t pid;
    pid = fork();

    if(pid<0){
        fprintf(stderr, "Fork Failed!");
        return 1;
    }else if (pid == 0){
        execlp("bin/ls", "ls", NULL);
    }
    else{
        printf("Child Complete!\n");
    }
    return 0;
}
```

Output:

A terminal window with a dark background and a colorful, abstract pattern. The window title bar shows the user 'sidharth001' and the machine 'LAPTOP-2SFRN76F', along with the current directory '/mnt/c/Users/Sidharth/os'. The terminal displays three lines of text: a command to change directory to 'os', a command to compile 'exp2.c' and run the resulting executable, and the output 'Child Complete!'.

```
sidharth001@LAPTOP-2SFRN76F: /mnt/c/Users/Sidharth/os
sidharth001@LAPTOP-2SFRN76F:/mnt/c/Users/Sidharth$ cd os
sidharth001@LAPTOP-2SFRN76F:/mnt/c/Users/Sidharth/os$ gcc exp2.c && ./a.out
Child Complete!
sidharth001@LAPTOP-2SFRN76F:/mnt/c/Users/Sidharth/os$
```