

EX NO: 5

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System Calls Programming

Aim: To experiment system calls using fork(), execlp() and pid()

functions. Program:

```
#include
<stdio.h>
#include
<stdlib.h>
#include
<unistd.h> int
main() {
    int pid;
    pid = fork();
    printf("THIS LINE EXECUTED TWICE\n");
    if (pid == -1) {

        printf("CHILD PROCESS NOT CREATED\n");
        exit(0)
    }
    else if (pid == 0) {
        printf("CHILD PROCESS:\n");
        printf("Child Process ID: %d\n",
        getpid());
        printf("Parent Process ID: %d\n", getppid());
    }
    else
    {
        printf("PARENT PROCESS:\n");
        printf("Parent Process ID: %d\n", getpid());
        printf("Parent's Parent Process ID: %d\n",
        getppid());
    }
    printf("IT CAN BE EXECUTED TWICE\n");
    return 0;
}
```

```
THIS LINE EXECUTED TWICE
PARENT PROCESS:
Parent Process ID: 14551
Parent's Parent Process ID: 14550
IT CAN BE EXECUTED TWICE
THIS LINE EXECUTED TWICE
CHILD PROCESS:
Child Process ID: 14555
Parent Process ID: 14551
IT CAN BE EXECUTED TWICE
```

OUTPUT :