Exp – 5:

AIM: To experiment system calls using fork(), execlp() and pid() functions.

PROGRAM:

```c
#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);
    }

    if (pid == 0) {
        printf("Child Process: PID = %d\n", getpid());
        printf("Child's Parent PID = %d\n", getppid());
    }

    if (pid > 0) {
        printf("Parent Process: PID = %d\n", getpid());
        printf("Parent's Parent PID = %d\n", getppid());
    }

    printf("IT CAN BE EXECUTED TWICE\n");

    return 0;
}
```

OUTPUT:

```
jagadesh@LAPTOP-33VRBQ67:/mnt/c/Users/Parthiban/OS Exps/shell/C programs$ ./systemCall
THIS LINE EXECUTED TWICE
Parent Process: PID = 7901
Parent's Parent PID = 371
IT CAN BE EXECUTED TWICE
THIS LINE EXECUTED TWICE
Child Process: PID = 7902
Child's Parent PID = 7901
IT CAN BE EXECUTED TWICE
```