

Harsha Vardhini.T

230701109

Ex. No.: 5

System Calls Programming

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

Program:

FORK SYSTEM CALL PROGRAM:

```
#include<stdio.h>
#include<stdlib.h>
int main( )
{
    int pid;
    pid=fork( );
    printf("\n THIS LINE EXECUTED TWICE");
    if(pid== -1) {
        printf("\n CHILD PROCESS NOT CREATED\n");
        exit(0);
    }
    if(pid==0) {
        printf("\n I AM CHILD PROCESS AND MY ID IS %d \n",getpid( ));
        printf("\n THE CHILD PARENT PROCESS ID IS:%d \n",getppid( ));
    }
    else
    {
        printf("\n I AM PARENT PROCESS AND MY ID IS:%d\n",getpid( ));
        printf("\n THE PARENTS PARENT PROCESS ID IS:%d\n",getppid( ));
    }
    printf("\n IT CAN BE EXECUTED TWICE");
    printf("\n");
}
```

OUTPUT:

THIS LINE EXECUTED TWICE

THIS LINE EXECUTED TWICE

I AM PARENT PROCESS AND MY ID IS:1234

THE PARENTS PARENT PROCESS ID IS:1000

IT CAN BE EXECUTED TWICE

I AM CHILD PROCESS AND MY ID IS 1235

THE CHILD PARENT PROCESS ID IS:1234

IT CAN BE EXECUTED TWICE