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**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