Ex No.: 5 SYSTEM CALLS PROGRAMMING

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Aim:

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

Code:

```
#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
I AM PARENT PROCESS AND MY ID IS:4513
THE PARENTS PARENT PROCESS ID IS:4512
IT CAN BE EXECUTED TWICE
THIS LINE EXECUTED TWICE
I AM CHILD PROCESS AND MY ID IS 4517
THE CHILD PARENT PROCESS ID IS:4513
IT CAN BE EXECUTED TWICE
```

Result:

Thus the experiment of system calls using fork(), execlp() and pid() functions has been studied and executed successfully