INTER PROCESS COMMUNICATION

OPERATING SYSTEMS LABS



LAB TASK # 06

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Exercise # 01

```
#include <unistd.h>
#include <stdio.h>
#include<signal.h>
#include <sys/types.h>
void Child(int pid) {
       printf("Child PID = %d\n", pid);
       printf("I am the Child with PID = %d\n", getpid());
}
void Parent(int pid) {
    char* command = "ps";
    char* argument_list[] = {"ps", "aux", NULL};
    printf("Parent of = %d\n", pid);
    printf("I am the Parent with PPID = %d\n", getppid());
    kill(pid, SIGTERM);
    if (fork() == 0) {
        int status = execvp(command, argument_list);
        if (status != -1) {printf("Operation Succeeded\n");}
    sleep(120);
}
int main()
{
int pid;
pid = fork();
if(pid == 0){
   Child(pid);}
else{
Parent(pid);}}
```

Exercise # 02

```
#include <unistd.h>
#include <stdio.h>
#include<signal.h>
#include <sys/types.h>
void Child(int pid) {
       char* command = "ps";
       char* argument_list[] = {"ps", "aux", NULL};
       printf("Child PID = %d\n", pid);
       printf("I am the Child with PID = %d\n", getpid());
       kill(pid, SIGTERM);
       if (fork() == 0) {
        int status = execvp(command, argument_list);
       if (status != -1) {printf("Operation Succeeded\n");}
       }
       sleep(120);
void Parent(int pid){
        printf("Parent of = %d\n", pid);
        printf("I am the Parent with PPID = %d\n",getppid());
}
int main(){
int pid;
pid = fork();
if(pid == 0){
   Child(pid);}
else{
Parent(pid);}}
```