

Procedure and Results

Assignment 1

The parent process printed first. After that, the child process printed.

Assignment 2

There are four process created. The parent creates 2 processes, and the child creates one.

Assignment 3

An orphan process is a child process whose parent has been killed. There was an orphan created that had a PID of 56.

Assignment 4

```
#include <iostream>
#include <stdlib.h>
#include <sys/types.h>
#include <unistd.h>

using namespace std;

int main()
{
    pid_t c_pid;

    cout << "The PID of the parent is " << getpid() << endl << endl;
    for(int i=0; i<10; i++)
    {
        c_pid = fork();
        if (c_pid == 0)
        {
            cout << "Child PID: " << getpid() << endl;
            cout << "Serial Number " << i << endl << endl;
            exit(0);
        }
    }
    exit(0);
}
```

Conclusion

In this lab we learned about processes and how to create them. We use the `fork()` function to create children of parent processes. We also learned about how orphan processes are created and how they are dealt with.