**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.