

Assignment 2 – Understanding Pipe

Deadline: Monday, 9th March at 11.55 PM (midnight)

This is the **introductory level** assignment. This means it has low impact on your grade. You are however required to submit it.

Assignment Statement:

Now that you have understood *pipes* in detail, let's answer an interesting question with the help of this assignment. Suppose you have a parent having two children as shown in figure 1. The parent can write to the *pipe* and the children can read the data from the *pipe*. The question is, when the parent sends data on to the *pipe*, will both the children read that data or only one of the two? If only one, what will the other user do in that case?

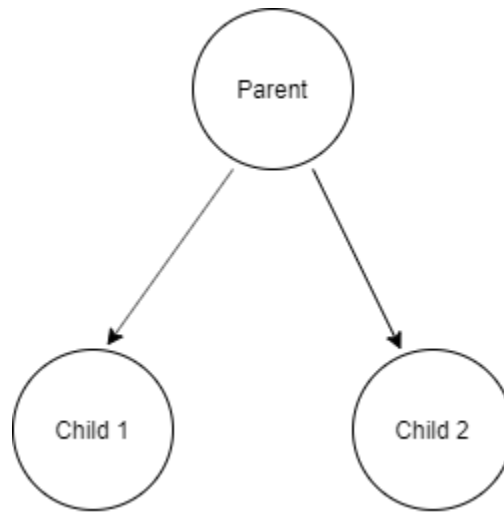


Figure 1

To answer this question, you will have to develop a C program in which a parent will be able to communicate with its children as shown in figure 2 below.

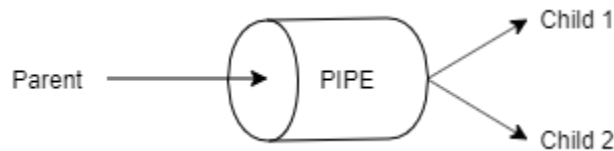


Figure 2

Show that the parent sends message over the *pipe* and both the children are reading that data. Print a message in both children indicating whether they received data or not. Whatever is the behavior of the program, write the behavior in few lines in a supporting document (PDF/DOCX/RTF).

For any queries, consult the TA: Mr. M. Abdullah Aziz via email: 1164085@lhr.nu.edu.pk