Topic: Inter Process Communication using FIFO

Due on 05-October-2020, 04:15pm

Late Submission 06-October-2020, 04:15pm (Please note that assignments submitted late will not fetch full marks. Hence you are advised to submit your assignments by due date and time)

Mode of submission: MS Teams
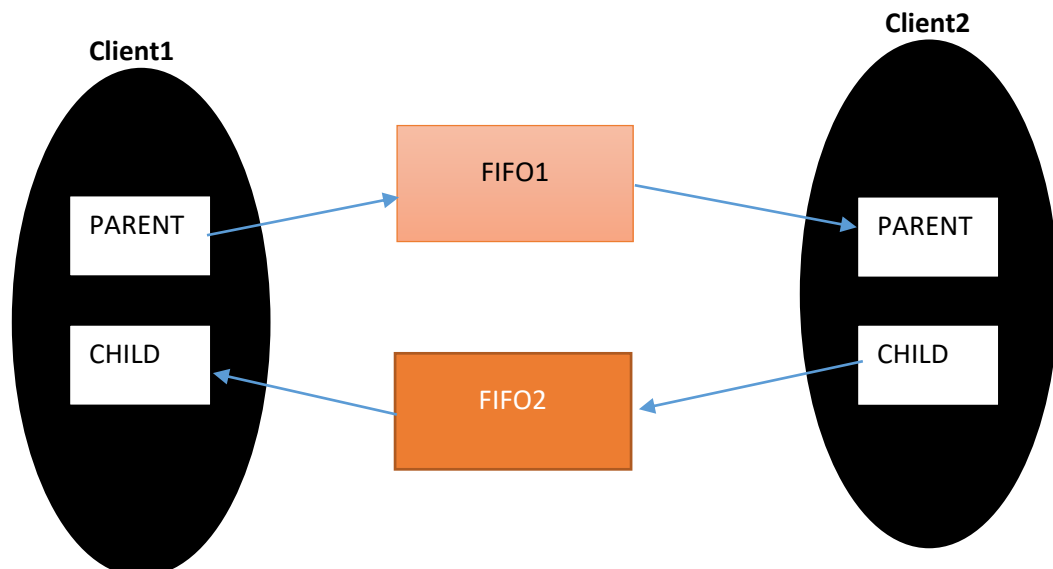
Instructions:

- You are required to upload the individual source (.c) files and one output file.
- You are required to follow proper naming convention for the files: ddmmyy118CS****Q#.c.
- Apart from the source files you are also required to upload an output file containing the outputs of execution of all the assignments. The file name of the output file must be in the form: ddmmyy118CS****Output.docx or .pdf
- The submitted programs will be checked for similarity through turnitin, before evaluation. So it is advisable not to borrow code from any source.

Assignments:

1. **Implement a one-way chat program in C using FIFO.** Create two clients: Client1.c and Client2.c and execute them on different terminals. Client1 will write a series of messages those will be read and displayed on Client2 screen. The moment Client1 types the message bye, it terminates and Client terminates immediately after reading bye from FIFO. Before termination, Client2 unlinks the FIFO so that it's deleted from the file system.

2. **Implement a two-way chat program in C using FIFO.** Create two clients: Client1.c and Client2.c and execute them on different terminals. Client1 will write a series of messages those will be read and displayed on Client2 screen and vice-versa.

Both clients now type the message bye before they can terminate. Parent has to wait for the termination of child. Before the clients terminate, they must unilink the FIFO was appropriately.