**Instruction:**

1. **Plagiarism will be checked after the exam. If found, all involved students will get zero.**
2. **After completion, you need to submit your code via Google Form. Use following link**

**https://docs.google.com/forms/d/e/1FAIpQLSdrcPHZAghjGGo2lrNPUTLy56hF3CQ1zPg3YHS7wYJXy8-Bvw/viewform?usp=sf\_link**

1. **The file name of your program should be your roll with .c extension.**
2. **Mark will be deducted for every minute delay in submission.**
3. **Submission time 10:45 AM, 29th Jan.**

**Question**

Write a program in which a parent process creates two child processes. The two child processes communicate using one pipe and one child process and the parent process communicate using another pipe.

One process takes input characters from user using ‘while (1)’ loop or ‘do while(1)’ and write it to a pipe. As it is while(1), the loop will never end and every time an input number is given it will be written to the pipe.

Another child process will take characters from the pipe and increment these by one and write to the second pipe. This will again be done in a ‘while (1)’ loop or ‘do while (1)’ loop.

The parent process will take characters from the second pipe and decrement it by one and print the characters received from the second pipe. If an ‘end of file’ is received, the parent process terminates both child processes and displays “Child processes terminated” and then exits.

After one increment and one decrement, the same characters are obtained. So input characters and the same as output characters.