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// Illustration of pipe in Linux
// Bosky Agarwal
// Interprocess Communication in Linux

#include <stdio.h>
#include <unistd.h>
#include <sys/types.h>

int main(void)
{
    int    fd[2], nbytes;
    pid_t  childpid;
    char   string[] = "Example of pipe Implementation!\n";
    char   readbuffer[80];

    pipe(fd);

    if((childpid = fork()) == -1)
    {
        perror("fork");
        exit(1);
    }

    if(childpid == 0)
    {
        /* Child process closes up input side of pipe */
        close(fd[0]);

        /* Send "string" through the output side of pipe */
        printf("String sent by child ...\n\n\n");
        write(fd[1], string, (strlen(string)+1));

        exit(0);
    }
    else
    {
        /* Parent process closes up output side of pipe */
        close(fd[1]);

        /* Read in a string from the pipe */
        nbytes = read(fd[0], readbuffer, sizeof(readbuffer));
        printf("Parent received the string: %s", readbuffer);
    }

    return(0);
}

```