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#include<stdio.h>
#include<stdlib.h>
#include<sys/types.h>
#include<sys/stat.h>
#include<unistd.h>
#include<fcntl.h>
#include<string.h>

int main()
{
    puts("\n\tClient - Listening\n");
    int code6 = mkfifo("fifo6.txt",0666);
    int code7 = mkfifo("fifo7.txt",0666);
    char strMessage[5000];
    if(code6 == -1)
        perror("\n\tmkfifo6 returned an error-file any already exist\n");
    if(code7 == -1)
        perror("\n\tmkfifo7 returned an error-file any already exist\n");

    int fd = open("fifo6.txt", O_RDONLY);
    int fd2 = open("fifo7.txt", O_WRONLY);
    if(fd == -1)
    {
        perror("Cannot open FIFO6 for read");
        return EXIT_FAILURE;
    }
    if(fd2 == -1)
    {
        perror("Cannot open FIFO7 for write");
        return EXIT_FAILURE;
    }
    puts("FIFO OPEN");
    //read string up to(5000 characters)
    char stringBuffer[5000];
    memset(stringBuffer, 0, 5000);

    int res;
    char Len;
    //while(1)
    {
        res = read(fd, &Len, 1);
        //if(Len == 1)//since null counts 1
        //break;

        read(fd, stringBuffer, Len); //Read String Characters
        stringBuffer[(int)Len] = 0;
        printf("\n\tClient Received: %s\n", stringBuffer);
        int j = 0,w=0, line = 0;
        while(stringBuffer[j]!='\0'){
            char ch = stringBuffer[j];
            if((ch==' ')||(ch=='\n')){
                w++;
            }
        }
    }
}

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        if(ch=="\n")
            line++;
    }
    j++;
}
char LC = (char) strlen(strMessage);
char str1[256];
char str2[256];
char str3[256];
sprintf(str1," No.of Words : %d::", w); strcat(strMessage,str1);
sprintf(str2," No.of Charecters: %d::",(j-1)); strcat(strMessage,str2);
sprintf(str3," No.of Lines: %d",line); strcat(strMessage,str3);
strcat(strMessage,"\0");
    printf("\n\tString: %s",strMessage);
write(fd2, &LC, 1);
write(fd2, strMessage, strlen(strMessage));
fflush(stdin);
strMessage[0] = 0;//reseting the character array
//if(LC==1)
    //break;

}
printf("\n");
puts("CLIENT CLOSED");
puts("SERVER CLOSED");
close(fd);
close(fd2);
return 0;
}
/*Output:
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ cd Abhishek
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/Abhishek$ gcc client.c
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/Abhishek$ ./a.out

```

Client - Listening

FIFO OPEN

Client Received: hi hello

String: No.of Words : 2:: No.of Charecters: 8:: No.of Lines: 1
CLIENT CLOSED
SERVER CLOSED*/