OS Lab 10

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Task 1

#include <stdio.h>

#include<unistd.h>

#include<string.h>

#include<fcntl.h>

#include<sys/stat.h>

#include<sys/types.h>

#define FIFO\_FILE "MYFIFO"

int main(){

int fd,fd1;

mkfifo(FIFO\_FILE,0666);

char readbuf1[80],readbuf2[80];

int pipe1[2], pipe2[2];

int returnstatus1, returnstatus2;

int pid;

int pipe1writemessage;

int pipe2writemessage;

int readmessage;

returnstatus1 = pipe(pipe1);

if(returnstatus1 == -1){

printf("Unable to create pipe1");

return 1;}

returnstatus2 = pipe(pipe2);

if(returnstatus2 == -1){

printf("Unable to create pipe2");

return 1;}

pid = fork();

if(pid != 0){

close(pipe1[0]);

close(pipe2[1]);

printf("IN Parent Block\n");

printf("You can type your message\n");

while(1){

fd=open(FIFO\_FILE,O\_CREAT|O\_WRONLY);

fgets(readbuf2,80,stdin);

write(fd,readbuf2,strlen(readbuf2)+1);

close(fd);}

sleep(1);}

else{

close(pipe1[1]);

close(pipe2[0]);

while(1){

fd1=open(FIFO\_FILE,O\_RDONLY);

read(fd1,readbuf1,sizeof(readbuf1));

printf("IN Childs Block\n");

printf("Read Client Message\n %s\n",readbuf1);

close(fd1);}}

return 0;}

Output

