## first

```
| Similar Setting | Similar Se
```

## second

## third

```
Edit View Search Terminal Help
// C program to implement one side of
// This side writes first, then reads
#include string.h>
#include string.h>
#include string.h>
#include sysy/stat.h>
#include sysy/stypes.h>
#include sysy/types.h>
int main(){
int fd:
                                                                                                                                                                                                        cardi~/coding/os/27seplab ./three
                                                                                                                                                                                                                                                                                                         cardi~/coding/os/27seplab ./threeoth
                                                                                                                                                                                                      User2: moon
                                                                                                                                                                                                                                                                                                        User1: river
                                                                                                                                                                                                      wider
User2: than
                                                                                                                                                                                                                                                                                                       than
User1: a
                                                                                                                                                                                                                                                                                                       hello
User1: my name is
                                                                                                                  int main()
                                                                                                                                                                                                      my name is
User2: what is it
                                                                                                                                                                                                                                                                                                       what is it
User1: its john cena
                                                                                                                                                                                                     its john cena
                                                                                                                                  fd1 = open(myfifo,0_RDONLY);
read(fd1, str1, 80);
                     write(fd, arr2, strlen(arr2)+1);
close(fd);
                      // Open FIFO for Read only
fd = open(myfifo, O_RDONLY);
                                                                                                                                 // string taken from user.
fd1 = open(myfifo,0_WRONLY);
fgets(str2, 80, stdin);
write(fd1, str2, strlen(str2)+1)
                     // Read from FIF0
read(fd, arr1, sizeof(arr1));
                     // Print the read message
printf("User2: %s\n", arr1);
close(fd);
!scrot --focused three.png
No write since last change]
                                                                                                            threeoth.c
```

## fourth

```
File Edit View Search Terminal Help
                  view search lemmar mep

cot msg_buffer {
  long msg_type;
  char msg_text[MAX_MESSAGE_SIZE];
                                                                                                                                       #include <unistd.h>
#include <sys/types.h
#include <sys/ipc.h>
#include <sys/msg.h>
                                                                                                                                                                                                                                                                                                                                                                rdi~/coding/os/27seplab ./fouroth
                                                                                                                                                                                                                                                                        ard1~/coding/os/
nter message:
nter message:
nter message: my
nter message:
nter message:
                                                                                                                                                                                                                                                                                                                                                          Received: my
Received: name
Received: is
Received: sahil
                                                                                                                                                                                                                                                                        inter message: name
inter message:
inter message:
inter message: is
inter message:
inter message:
inter message:
inter message:
inter message:
                key_t key;
int msgid;
struct msg_buffer message;
                                                                                                                                       struct msg_buffer {
   long msg_type;
   char msg_text[MAX_MESSAGE_SIZE];
                 key = ftok("/tmp", 'A');
if (key == -1) {
    perror("ftok");
    exit(1);
                                                                                                                                      int main() {
   key_t key;
   int msgid;
   struct msg_buffer message;
                                                                                                                                                // Generate a unique key for the message queue
key = ftok("/tmp", 'A');
if (key == -1) {
   pernor("ftok");
   exit(1);
                 receiver)
msgid = msgget(key, 0666 | IPC_CREAT);
if (msgid == -1) {
    perror("msgget");
    exit(1);
                                                                                                                                                                                                                                                                                                                                                        thecuber@thecuber-ThinkPad-E14:~/coding/os/27
seplab$ scrot --focused four.png
                                                                                                                                                msgid = msgget(key, 0666 | IPC_CREAT);
if (msgid == -1) {
   perror("msgget");
   exit(1);
                          ce (1) {
   // Get user input
  printf("Enter message: ");
  fgets(message.msg_text, sizeof(message.m
        // Send the message
  message.msg_type = 1;
  if (msgsnd(msgid, &message, strlen(messa
ge.msg_text) + 1, 0) == -1) {
    perror("msgsnd");
    exit(1);
}
                                                                                                                                                while (1) {
   // Receive a message
   if (msgrcv(msgid, &message, sizeof(message.m
                                                                                                                                                                etse {
printf("Received: %s", message.msg_text)
                                                                                                                              fouroth.c
  four.c" 50L, 1021B written
```