EXPERIMENT-6. Alm: - Implement IPC using message quive. sender c # include < std ?o. h> # include < stdlib. h> # include toting. h) # include = unistd-h> # Thounde < syst pc. h> # Frichide < sys / msg. h> # define BUF\_SIZE30 struct smsg long intmsg-type; char data [BUF\_SIZE]; I send, neutrer; int main!) 3 rot msgid = msggct (1234,06 66) 1PC-CREA if (msgrid = = -1)fprintf (stderr, "Cannot create"); return EXIT\_FATIURE; Apanta (stdout, "Enter some data to be sent to the receiver"); fgets(send.data, BUF\_SIZE, stdn); send msg-type=1; if (msg snd (msgid, Goid \*) Asend, BUF\_ 51Z € , 0) = =-1)

Porint P Cotderr, "Error wniting to message return EXIT\_FAILURE; sleep (2);
if (msgrcv (msgid, (void\*) drewere, BUF-SIZFZ)
==-1) Sprintf (stderr, "Error reading data from MSG Q (n") 3 Sprunt & (stdout, "Reniever got: % s") msgct (cmsg;d,1PC-RMID,0); return EXIT\_success; receiver. # molude < ctdbb. h> # molude = stdio. h> # include = stug. h> # Thulude = unista. h) # In Jude = sys [msg. h] # define BUF-81ZE 30 shout smsg long for to msg.type; char data [BVF-81Ze]; I receive, send;

int man () int mogid = mogget (1234,0666) IPC- (REAT) [f (megid = -- 1) Sprintf (stderr, "Camot create"); return 6x17-FAILURE; if Consgerv Consgid, (void) & receive, BUF-SIZEIO) I printf (stderr) Error reading data from mis or a m"); Sprintf (stdout, "Receiver got %sh") reire data); Sprint (stdout," Enter some data to be sent to the scudir") fgets (send. data, BUF\_SIZE, stdin); sendince g -type = 2; if Consgand Consgià Croid \*) faund, BUF\_SIZE(0) ==-1) Sportet Cot derr," Error von itng to return EXIT\_FAILURE; Steep (2); msgcticmsgid, (PC-RMID, D); return EXIT-SUCEESS;

Algorithm. 1. Define a structure with an Putager variable and a character array. 2. Create a message avenu using misg get 3. Set message type as 1 4. Accept the message. 5. send the message using magndo 6. Receive the reply message using msg rev 7. Print the message. 8. Remove the massage id using msg etlig Realier Cost of Cost of q- Stop 1. Define à structure with an Enteger variable and a character array.

2. Coeate a message queue voing ms gget? 3. Set message type as 1 4. Readre the message, vsing msgrev () Print the message 6. Set message type as 1 Sond back a melsage using megend() 8. Rumove the message id vsng mrget1() 9- Stop.

Sender

Fater some data to be sent to
the receiver Mello are you there?

Receiver got: Yes, I am here

Receiver

Receiver got, Mello are youthurlReceiver got, Mello are youthurl
Receiver got, Mello are youthurl
Enter some data to be sent to the

sender: Yes, I am here.