/\*Client Server Program using named pipe\*/

#include <sys/types.h>

#include <sys/stat.h>

#include <stdio.h>

#define F1 "FIFO1"

#define F2 "FIFO2"

#define PERMS 0666

void client(int wr,int rd)

{

char content[13];

printf("client sending message to the server\n");

write(wr,"hello server",13);

read(rd,content,13);

printf("Message from server is %s",content);

}

void server(int wr,int rd)

{

char content[13];

read(rd,content,13);

printf("\nMessage from client is %s",content);

printf("server sending message to the client\n");

write(wr,content,13);

}

int main()

{

int fdw,fdr,sdw,sdr,pid;

mknod(F1,S\_IFIFO|PERMS,0);

mknod(F2,S\_IFIFO|PERMS,0);

pid=fork();

if(pid<0) {

exit(0);

}

else if(pid>0)

{

//parent process;client

fdw=open(F1,1);

fdr=open(F2,0);

client(fdw,fdr);

waitpid(pid,NULL,0);

close(fdw);

close(fdr);

unlink(F1);

unlink(F2);

}

else

{

sdr=open(F1,0);

sdw=open(F2,1);

server(sdw,sdr);

close(sdr);

close(sdw);

unlink(F1);

unlink(F2);

}

}