// for shmget int shmget(key\_t key, size\_t size, int shmflg);

#include <sys/ipc.h>

#include <sys/shm.h>

//\*shmat(int shmid, const void \*shmaddr,int shmflg);int shmdt(const void \*shmaddr);

#include <sys/types.h>

//for fork

#include<unistd.h>

#include<stdio.h>

#include<string.h>

#include<ctype.h>

//for wait

#include <sys/wait.h>

int main()

{

int id;

char \*a,\*b;

char loc[100];

int cpid,i;

id=shmget(IPC\_PRIVATE,100,IPC\_CREAT|0666);

cpid=fork();

if(cpid>0)

{

printf("Enter name in lowercase : ");

a=shmat(id,0,0);

scanf("%s",loc);

strcpy(a,loc);

wait(NULL);

printf("Read from Parent: %s\n",a);

shmdt(a);

}

else

{

sleep(5);

b=shmat(id,0,0);

for(i=0;i<strlen(b);i++)

{

b[i]=toupper(b[i]);

}

printf("Converted to : %s\n",b);

shmdt(b);

}

shmctl(id,IPC\_RMID,NULL);

}

/\*

administrators-Mac-mini-6:Desktop cse26$ ./k

Enter name in lowercase : sudhan

Converted to : SUDHAN

Read from Parent: SUDHAN

\*/

// for shmget int shmget(key\_t key, size\_t size, int shmflg);

#include <sys/ipc.h>

#include <sys/shm.h>

//\*shmat(int shmid, const void \*shmaddr,int shmflg);int shmdt(const void \*shmaddr);

#include <sys/types.h>

//for fork

#include<unistd.h>

#include<stdio.h>

#include<string.h>

#include<ctype.h>

//for wait

#include <sys/wait.h>

void main()

{

int id;

char \*a,\*b;

char loc[100];

int cpid,i;

key\_t key=ftok("shmfile",65);

id=shmget(key,100,IPC\_CREAT|0666);

a=shmat(id,NULL,0);

strcpy(a,"read");

sleep(5);

printf("%s",a);

shmdt(a);

shmctl(id,IPC\_RMID,NULL);

}

// for shmget int shmget(key\_t key, size\_t size, int shmflg);

#include <sys/ipc.h>

#include <sys/shm.h>

//\*shmat(int shmid, const void \*shmaddr,int shmflg);int shmdt(const void \*shmaddr);

#include <sys/types.h>

//for fork

#include<unistd.h>

#include<stdio.h>

#include<string.h>

#include<ctype.h>

//for wait

#include <sys/wait.h>

#include<sys/stat.h>

#include <fcntl.h>

void main()

{

int id,fp;

char \*a,\*b;

char loc[100];

sleep(2);

key\_t key=ftok("shmfile",65);

id=shmget(key,100,IPC\_CREAT|0666);

a=shmat(id,NULL,0);

fp = open(a, O\_RDONLY);

read(fp, b, 1024);

strcpy(a,b);

//sleep(5);

shmdt(a);

close(fp);

}

#include<sys/ipc.h>

#define NULL 0

#include<sys/shm.h>

#include<sys/types.h>

#include<unistd.h>

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<sys/wait.h>

#include<ctype.h>

#include<fcntl.h>

int main()

{

char \*text;

int \*turn;

int id\_c,n,count=0,turn\_id\_c;

text=(char\*)malloc(50\*sizeof(char));

id\_c=shmget(140,50,0);

turn\_id\_c=shmget(460,10,0);

text=shmat(id\_c,NULL,0);

turn=shmat(turn\_id\_c,NULL,0);

printf("Server:%s\n",text);

strcpy(text,"");

while(strcmp(text,"exit")!=0)

{

if(turn[0]==0)

{

if(count!=0)

printf("Server:%s\n",text);

printf("Client:");

gets(text);

count++;

turn[0]=1;

}

}

shmdt(text);

shmdt(turn);

shmctl(id\_c, IPC\_RMID,NULL);

shmctl(turn\_id\_c, IPC\_RMID,NULL);

}

#include<sys/ipc.h>

#define NULL 0

#include<sys/shm.h>

#include<sys/types.h>

#include<unistd.h>

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<sys/wait.h>

#include<ctype.h>

#include<fcntl.h>

int main()

{

char \*text;

int \*turn;

int id,count=1,turn\_id;

text= (char\*)malloc(50\*sizeof(char));

if((id=shmget(140,50,IPC\_CREAT|00666))<0)

{

perror("shmget id failed\n");

exit(-1);

}

if(( turn\_id=shmget(460,10,IPC\_CREAT|06666))<0)

{

perror("shmget turn fail\n");

exit(-1);

}

text=shmat(id,NULL,0);

turn=shmat(turn\_id,NULL,0);

turn[0]=1;//when turn contains 1 it's the server's turn. When it's 0, it's the client's turn.

printf("Type exit to end chat.\n");

strcpy(text,"");

while(strcmp(text,"exit")!=0)

{

if(turn[0]==1)

{

if(count>1)

{

printf("Client:%s\n",text);

}

printf("Server:");

gets(text);

turn[0]=0;//client's turn next

count++;

}

}

shmdt(text);

shmdt(turn);

shmctl(id,IPC\_RMID,NULL);

shmctl(turn\_id,IPC\_RMID,NULL);

}