```
Writer
#include <sys/ipc.h>
#include <sys/shm.h>
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
int main()
  key t \text{ key} = \text{ftok}(\text{"a.txt"}, \text{'A'});
  int shmid = shmget(key, 1024, 0777 | IPC_CREAT);
  char *str = (char *)shmat(shmid, (void *)\overline{0}, 0);
  printf("write data into file: ");
  fgets(str, 1024, stdin); // Use fgets instead of gets
  printf("Data written in memory: %s\n", str);
  shmdt(str);
  system("ipcs -m");
  return 0;
}
Reader
#include<sys/ipc.h>
#include <sys/shm.h>
#include <stdio.h>
#include<unistd.h>
#include<stdlib.h>
int main()
       key t key=ftok("a.txt",'A');
       int shmid= shmget( key ,1024,0777|IPC CREAT);
       char *str= (char*) shmat(shmid,(void*)0,0);
       printf("Data read from memory: %s\n",str);
       system("ipcs -m");
       shmdt(str);
       shmctl(shmid,IPC_RMID,NULL);
       return 0;
}
```

OUTPUT

er Writer\$./a.out write data into file: HELLO Data written in memory: HELLO							er Writer\$./a.out Data read from memory: HELLO						
Sha key	red Memory shmid	Segments	perms	bytes	nattch	status	key	shmid	Segments owner	perms	bytes	nattch	status
0x00000000	4	mohakborol	600	524288	2	dest	0x00000000	4	mohakborol	600	524288	2	dest
0x00000000	7	mohakborol	686	6073236	2	dest	0x00000000	7	mohakborol	606	6073236	2	dest
							0x00000000	8	mohakborol	606	6073236	2	dest
0x00000000	8	mohakborol	606	6073236	2	dest	0x00000000	9	mohakborol	606	6073236	2	dest
0x00000000	9	mohakborol	606	6073236	2	dest	000000000	40		606	6072226	2	4
0x00000000	10	mohakborol	606	6073236	2	dest	0x00000000	10	mohakborol	000	6073236	2	dest
0x00000000	10	mohakborol	688	524288	2	dest	0x00000000	19	mohakborol	600	524288	2	dest
0.000000000	19	PIONAKDOFOL	000	324200	2	uest	0xffffffff	25	mohakborol	777	1024	1	
0xffffffff	25	mohakborol	777	1024	0								