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### **Assignment: 7b**

Code:

**server.c**

```
#include<stdio.h>
#include<unistd.h>
#include<sys/ipc.h>
#include<sys/shm.h>
int main()
{
// ftok to generate a unique id
key_t key=ftok(".",65);
// shmget returns an identifier in shmid
int shmid=shmget(key,1024,0666|IPC_CREAT);
//shmat to attach to shared memory
char *str=(char *)shmat(shmid,NULL,0);
printf("Enter the data to send from server to client :");
fgets(str,1024,stdin);
printf("\nData written in shared memory :%s\n",str);
//shmdt to detach from shared memory
shmdt(str);
return 0;
}
```

## **client.c**

```
#include<stdio.h>
#include<unistd.h>
#include<sys/ipc.h>
#include<sys/shm.h>
int main()
{
key_t key=ftok(".",65);
int shmid=shmget(key,1024,0666|IPC_CREAT);
char * str=(char *)shmat(shmid,NULL,0);
printf("Data from server : %s\n",str);
shmdt(str);
// destroy the shared memory
shmctl(shmid,IPC_RMID,NULL);
return 0;
}
```

## **Output: -**

### **Server.c**

```
shubz@shubz-VirtualBox:~/Desktop$ gcc -o s server.c
```

```
shubz@shubz-VirtualBox:~/Desktop$ ./s
```

Enter the data to send from server to client : Is it working?

Data written in shared memory : Is it working?

```
shubz@shubz-VirtualBox:~/Desktop$
```

**client.c**

```
shubz@shubz-VirtualBox:~/Desktop$ gcc -o c client.c
```

```
shubz@shubz-VirtualBox:~/Desktop$ ./c
```

Data from server : Is it working?

```
shubz@shubz-VirtualBox:~/Desktop$
```