

Name: - Siddhesh Avinash Dhinge

Roll no.: - 33310

Class: TE 11

Batch: L11

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

```
osbox@osboxesorg:~/Desktop$ gcc -o s server.c
```

```
osbox@osboxesorg:~/Desktop$ ./s
```

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

Data written in shared memory : Is it working?

```
osbox@osboxesorg:~/Desktop$
```

client.c

```
osbox@osboxesorg:~/Desktop$ gcc -o c client.c
```

```
osbox@osboxesorg:~/Desktop$ ./c
```

Data from server : Is it working?

```
osbox@osboxesorg:~/Desktop$
```