

Program:

server

```
#include<sys/types.h>
#include<sys/ipc.h>
#include<sys/shm.h>
#include<stdio.h>
#include<stdlib.h>
#include<wait.h>
#include<unistd.h>
#define MAXSIZE 40

void die(char *s){
    perror(s);
    exit(1);
}

int main(){
    char c;
    int shmid;
    key_t key;
    char *shm,*s;
    key=400;

    if((shmid=shmget(key,MAXSIZE,IPC_CREAT | 0666))<0){
        die("shmget");
    }

    if((shm=shmat(shmid,NULL,0))!=(char *)-1)
    {
        die("shmat");
    }

    s=shm;

    for(c='A';c<='Z';c++){
        *s++=c;
    }

    while(*shm !='+'){
        sleep(1);
    }

    exit(0);
}
```

client

```
#include<sys/types.h>
#include<sys/ipc.h>
#include<sys/shm.h>
#include<stdio.h>
#include<stdlib.h>
#include<wait.h>
#include<unistd.h>
#define MAXSIZE 40
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void die(char *s){
    perror(s);
    exit(1);
}

int main(){

    int shmid;
    key_t key;
    char *shm,*s;
    key=400;

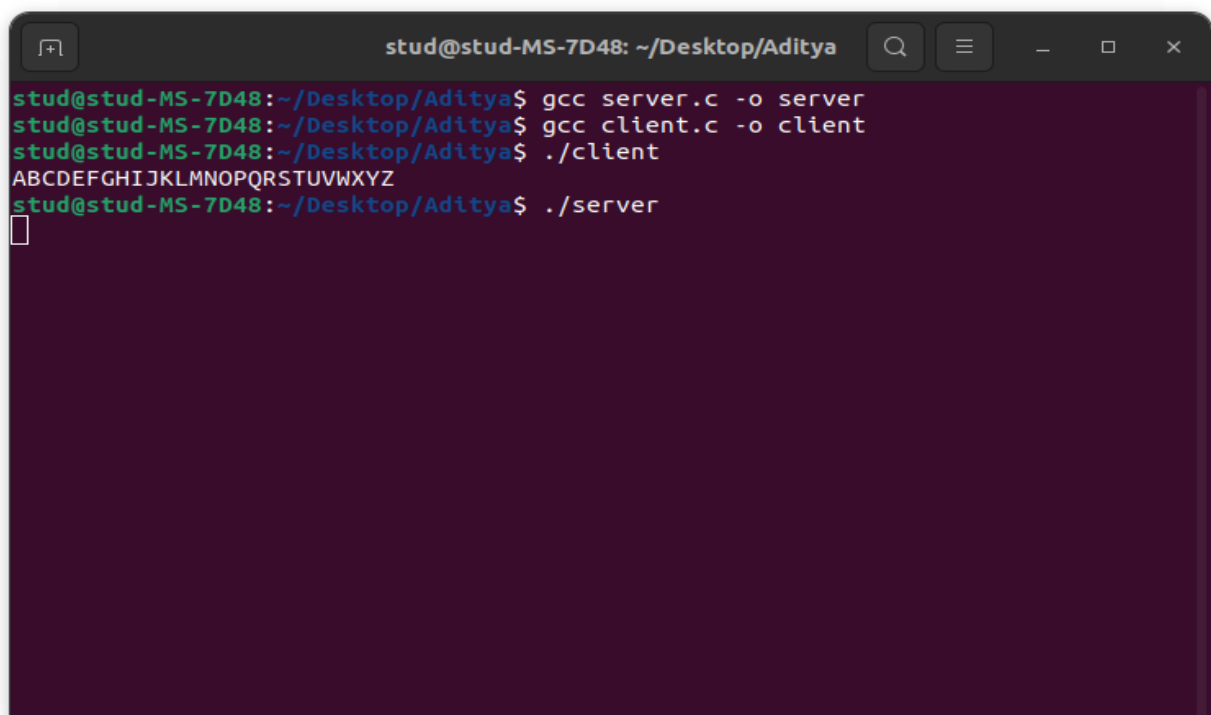
    if((shmid=shmget(key,MAXSIZE,IPC_CREAT | 0666))<0){
        die("shmget");
    }

    if((shm=shmat(shmid,NULL,0))!=(char *)-1)
    {
        die("shmat");
    }

    for(s=shm;*s!='\0';s++){
        putchar(*s);
    }
    putchar('\n');

    *shm='*';
    exit(0);
}
```

Output:



```
stud@stud-MS-7D48: ~/Desktop/Aditya
stud@stud-MS-7D48:~/Desktop/Aditya$ gcc server.c -o server
stud@stud-MS-7D48:~/Desktop/Aditya$ gcc client.c -o client
stud@stud-MS-7D48:~/Desktop/Aditya$ ./client
ABCDEFGHIJKLMNOPQRSTUVWXYZ
stud@stud-MS-7D48:~/Desktop/Aditya$ ./server
```