CODE-

```
cse16@localhost:~
# cselowiodamosta

#include <stdlib.h>

#include <stdlib.h>

#include <string.h>

#include <sys/ipc.h>

#include <sys/shm.h>

#include <unistd.h>
#define SHM_SIZE 1024 // Size of the shared memory segment
int main() {
   key_t key = 1234; // Unique key for the shared memory segment
   int shmid;
   char *shmaddr;
       if ((shmid = shmget(key, SHM_SIZE, IPC_CREAT | 0666)) < 0) {
    perror("shmget");</pre>
       if ((shmaddr = (char *)shmat(shmid, NULL, 0)) == (char *)-1) {
    perror("shmat");
               exit(1);
       char message[] = "Hello from the sender process!";
sprintf(shmaddr, "%s", message);
printf("Sender wrote: %s\n", message);
        sleep(5);
        if (shmdt(shmaddr) == -1) {
   perror("shmdt");
   exit(1);
```



```
#include <stdio.h>
#include <stdlib.h>
#include <stdlib.h>
#include <string.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <unistd.h>
#define SHM_SIZE 1024 // Size of the shared memory segment
        key_t key = 1234; // Unique key for the shared memory segment
int shmid;
        char *shmaddr;
        // 1. Allocate the shared memory segment (it should already exist)
if ((shmid = shmget(key, SHM_SIZE, 0666)) < 0) {
    perror("shmget");
    exit(1);</pre>
        // 2. Attach the shared memory segment
if ((shmaddr = (char *)shmat(shmid, NULL, 0)) == (char *)-1) {
    perror("shmat");
                exit(1);
        // 3. Print the shared memory contents
printf("Message Received: %s\n", shmaddr);
        // 4. Detach shared memory segment
if (shmdt(shmaddr) == -1) {
    perror("shmdt");
    exit(1);
        // To remove the shared memory segment (optional):
// if (shmctl(shmid, IPC_RMID, NULL) == -1) {
// perror("shmctl");
        return 0;
```

OUTPUT-

```
cse16@localhost:~

login as: cse16
cse16@172.16.8.127's password:

Last login: Mon Apr 7 08:10:15 2025 from 172.16.9.23

[cse16@localhost ~]$ vi sender.c

[cse16@localhost ~]$ vi receiver.c

[cse16@localhost ~]$ gcc sender.c -o sender

[cse16@localhost ~]$ gcc receiver.c -o receiver

[cse16@localhost ~]$ ./sender

Sender wrote: Hello from the sender process!

[cse16@localhost ~]$
```

```
csel6@localhost~

login as: csel6
csel6@172.16.8.127's password:
Last login: Mon Apr 7 08:16:38 2025 from 172.16.9.23
[csel6@localhost ~]$ ./receiver

Message Received: Hello from the sender process!
[csel6@localhost ~]$

[csel6@localhost ~]$
```