AIM: 7B. Inter-process Communication using Shared Memory using System V. Application to demonstrate: Client and Server Programs in which server process creates a shared memory segment and writes the message to the shared memory segment. Client process reads the message from the shared memory segment and displays it to the screen.

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//LAB 7B - Sever.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#define SHM_KEY 1234 // Unique key for the shared memory segment
int main() {
        int shmid;
        char *shared memory;
        char message[] = "Hello, client! This is the server.";
        // Create a shared memory segment
        shmid = shmget(SHM_KEY, 1024, IPC_CREAT | 0666);
        if (shmid == -1) {
                perror("shmget");
                exit(EXIT FAILURE);
        }
        // Attach the shared memory segment
        shared memory = (char *)shmat(shmid, NULL, 0);
        if (shared_memory == (char *)-1) {
                perror("shmat");
                exit(EXIT_FAILURE);
        }
        // Write message to shared memory
        strcpy(shared_memory, message);
        printf("Server: Message written to shared memory: %s\n", message);
        // Detach the shared memory segment
        shmdt(shared_memory);
        return 0;
}
```