Practical-8

Write a prgram that demostrats shared memory.

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <unistd.h>
#define SHMSIZE 1024
int main() {
  int shmid;
  key_t key;
  char *shm, *s;
  key = ftok(".", 'a');
  if ((shmid = shmget(key, SHMSIZE, IPC_CREAT | 0666)) < 0) {
    perror("shmget");
    exit(1);
  }
  if ((shm = shmat(shmid, NULL, 0)) == (char *) -1) {
    perror("shmat");
    exit(1);
  }
  s = shm;
  for (char *msg = "Hello, This is the shared memory!"; *msg != '\0'; msg++) {
     *s++ = *msg;
  }
```

Practical-8

```
*s = '0';
 if (shmdt(shm) == -1) {
   perror("shmdt");
   exit(1);
 }
 sleep(3);
 if ((shm = shmat(shmid, NULL, 0)) == (char *) -1) {
   perror("shmat");
   exit(1);
 }
 printf("Message from shared memory: %s\n", shm);
 if (shmdt(shm) == -1) {
   perror("shmdt");
   exit(1);
 }
 if (shmctl(shmid, IPC_RMID, NULL) == -1) {
   perror("shmctl");
   exit(1);
 }
 return 0;
Message from shared memory: Hello, This is the shared memory!
```