```
shm_client.c
* shm-client - client program to demonstrate shared memory.
#include <stdlib.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <stdio.h>
#define SHMSZ
                   27
int main() // Change made here
  int shmid;
  key_t key;
  char *shm, *s;
   * We need to get the segment named
   * "5678", created by the server.
  key = 5678;
   * Locate the segment.
  if ((shmid = shmget(key, SHMSZ, 0666)) < 0) {
    perror("shmget");
    exit(1);
  }
   * Now we attach the segment to our data space.
  if ((shm = shmat(shmid, NULL, 0)) == (char *) -1) {
    perror("shmat");
    exit(1);
  }
   * Now read what the server put in the memory.
  for (s = shm; *s != \0'; s++) // Change made here
    putchar(*s);
  putchar('\n');
   * Finally, change the first character of the
   * segment to '*', indicating we have read
   * the segment.
```

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

```
shm_server.c
#include <stdlib.h>
                      // For exit()
#include <unistd.h>
                       // For sleep()
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <stdio.h>
#define SHMSZ 27
int main() // Explicitly define the return type
  char c;
  int shmid;
  key_t key;
  char *shm, *s;
   * We'll name our shared memory segment
   * "5678".
   */
  key = 5678;
   * Create the segment.
  if ((shmid = shmget(key, SHMSZ, IPC_CREAT | 0666)) < 0) {
    perror("shmget");
    exit(1);
  }
  /*
   * Now we attach the segment to our data space.
  if ((shm = shmat(shmid, NULL, 0)) == (char *) -1) {
    perror("shmat");
    exit(1);
  }
   * Now put some things into the memory for the
   * other process to read.
   */
  s = shm;
  for (c = 'a'; c \le 'z'; c++)
    *_S++=c;
  *s = '\0'; // Use '\0' instead of NULL
```

```
/*
 * Finally, we wait until the other process
 * changes the first character of our memory
 * to '*', indicating that it has read what
 * we put there.
 */
while (*shm != '*')
    sleep(1);
exit(0);
}
```