EXP NO:7 IPC USING SHARED MEMORY

PROGRAM

```
cse81@localhost:~
#include <stdio.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#include <string.h>
#include <unistd.h>
#define SHM SIZE 1024
int main() {
   key_t key = ftok("shmfile", 65); // Generate unique key
   int shmid = shmget(key, SHM_SIZE, 0666 | IPC_CREAT); // Allocate shared memory
   char *shm ptr = (char *)shmat(shmid, NULL, 0); // Attach shared memory
   sprintf(shm ptr, "Welcome to Shared Memory"); // Write string to shared memory
   printf("Message sent: %s\n", shm_ptr);
   sleep(10); // Delay to allow receiver to read the message
   shmdt(shm ptr); // Detach shared memory
    return 0;
```

OUTPUT

```
[cse81@localhost ~]$ gcc sender.c -o sender

[cse81@localhost ~]$ ./sender

Message sent: Welcome to Shared Memory

^C

[cse81@localhost ~]$ gcc receiver.c -o receiver

[cse81@localhost ~]$ ./receiver

Message Received: Welcome to Shared Memory
```