OPERATING SYSTEM

Experiment 12 Inter Process Communication

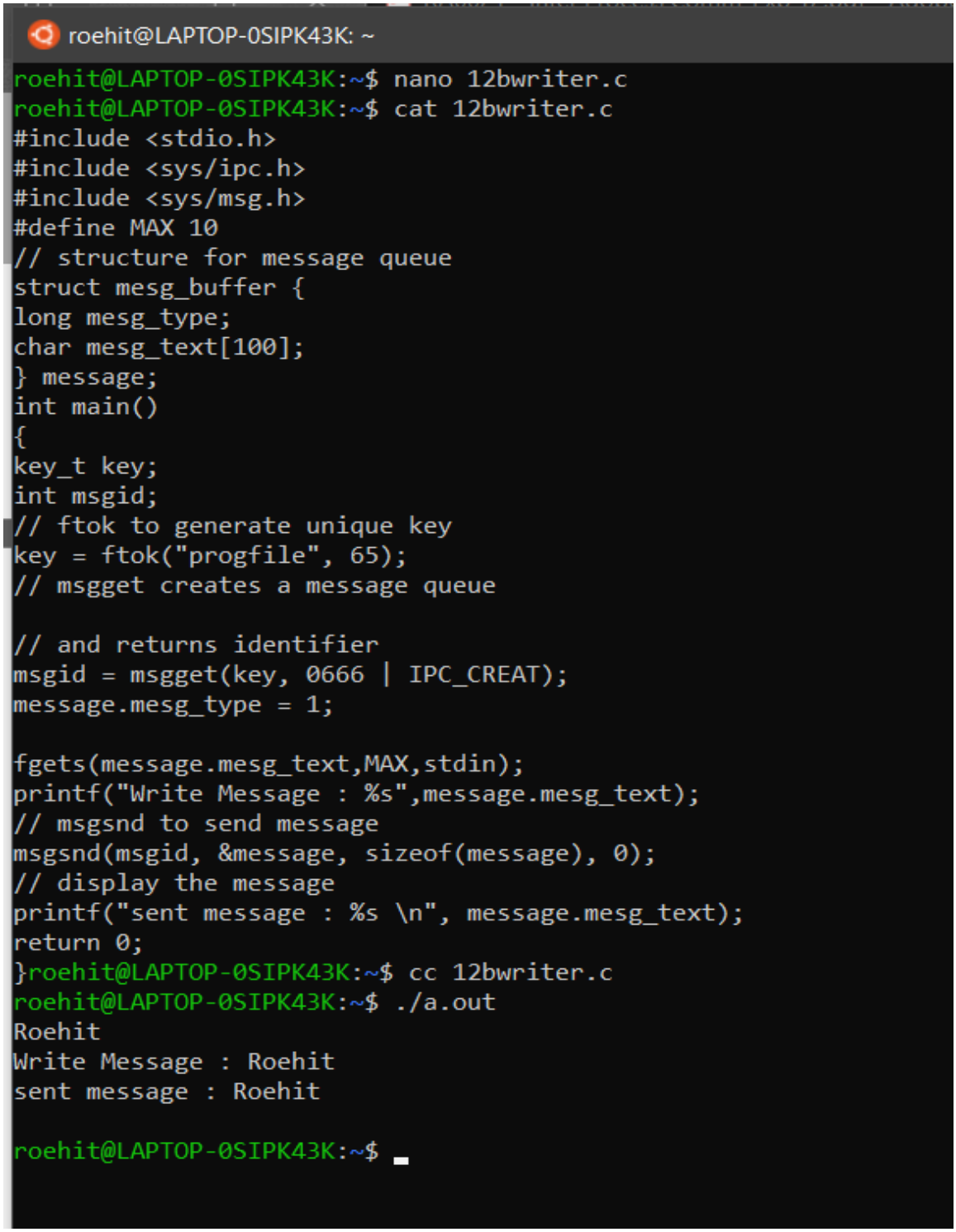
L2 -SWE

ROEHIT RANGANATHAN

RA1911033010017

12B Message Queue
Ref. screenshot:

Writer



Reader

```
roehit@LAPTOP-0SIPK43K:~$ cat 12breader.c
#include <stdio.h>
#include <sys/ipc.h>
#include <sys/msg.h>
// structure for message queue
struct mesg_buffer {
long mesg_type;
char mesg_text[100];
} message;
int main()
{
key_t key;
int msgid;
// ftok to generate unique key
key = ftok("progfile", 65);
// msgget creates a message queue
// and returns identifier
msgid = msgget(key, 0666 | IPC_CREAT);
// msgrcv to receive message
msgrcv(msgid, &message, sizeof(message), 1, 0);
// display the message
printf("Data Received is : %s \n",message.mesg_text);
// to destroy the message queue

msgctl(msgid, IPC_RMID, NULL);
return 0;
}roehit@LAPTOP-0SIPK43K:~$ cc 12breader.c
roehit@LAPTOP-0SIPK43K:~$ ./a.out
Data Received is : Roehit
```