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**LAB ASSIGNMENT 2**

**SUBMITTED BY:** Kulsoom Khurshid

**REGISTRATION #:** SP20-BCS-044

**COURSE:** Operating System

**SUBMITTED TO:** MA’AM ZAHIDA WALIYAT

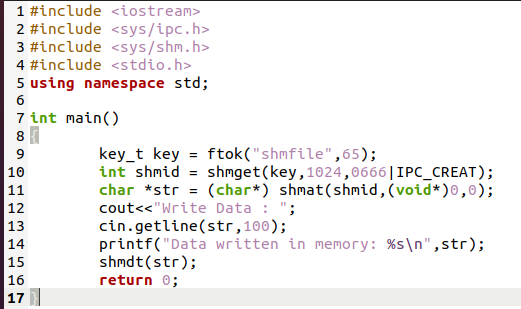
**Question no1:**

**Write the code for messages sending and receiving over shared memory**

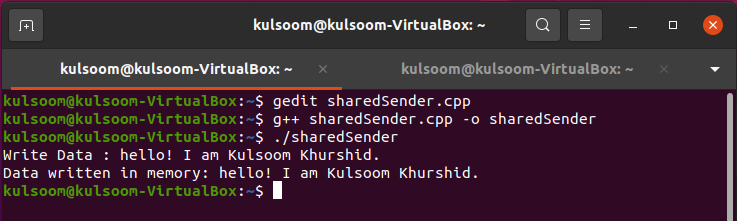
**Solution:**

**SENDER**

PROGRAM:

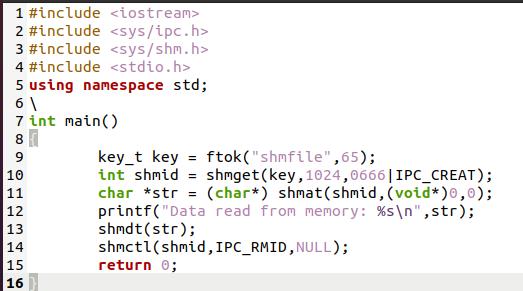


COMMANDS AND OUTPUT:

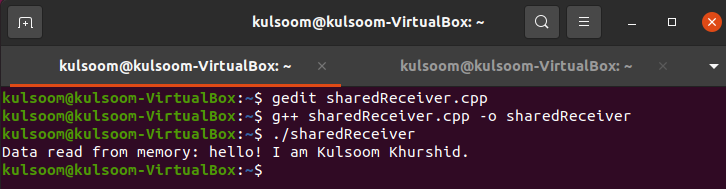


**RECEIVER**

PROGRAM:



COMMANDS AND OUTPUT:



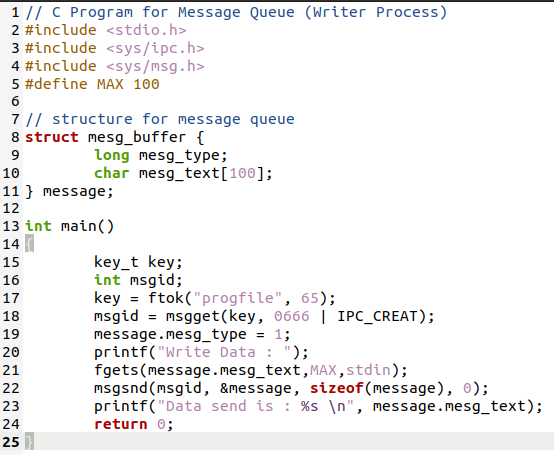
**Question no2:**

**Write the code for messages sending and receiving through message passing**

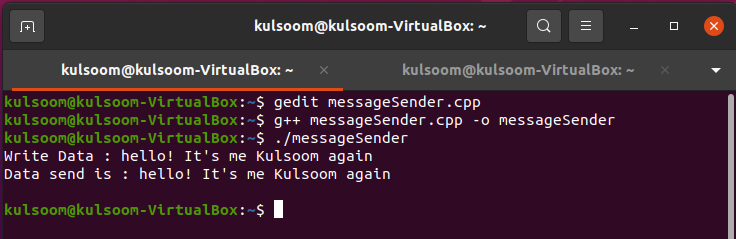
**Solution:**

**SENDER**

PROGRAM:



OUTPUT AND COMMANDS:

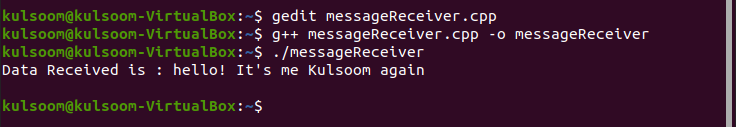


**RECEIVER**

PROGRAM:



OUTPUT AND COMMANDS:

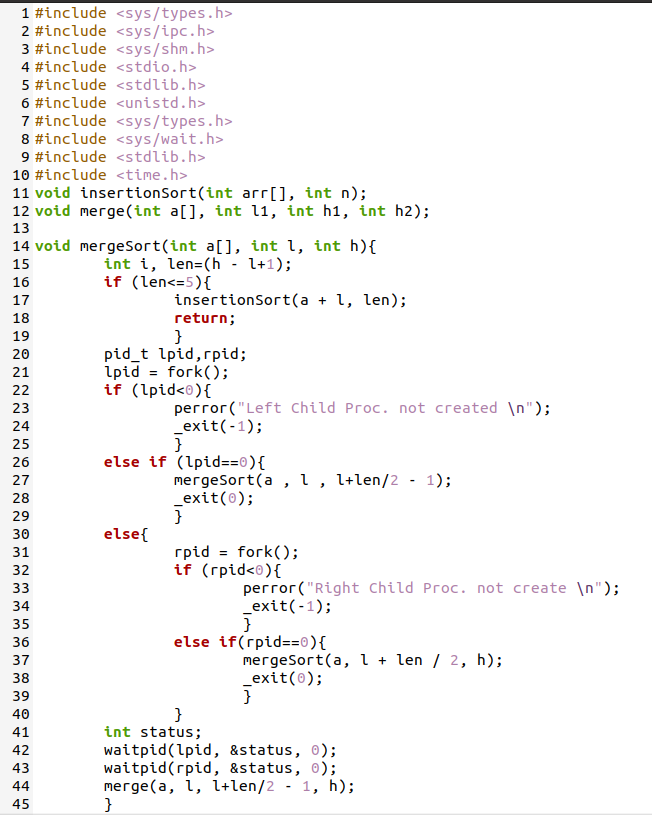


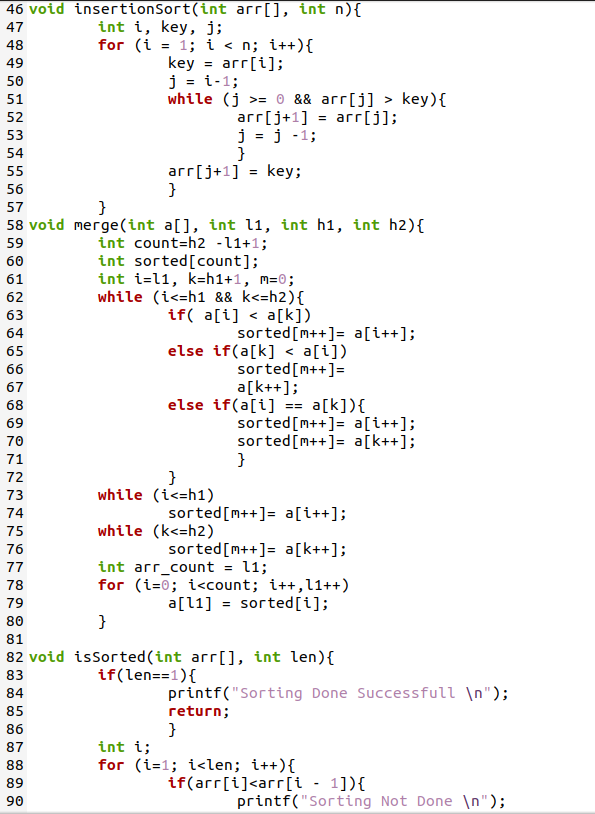
**Question no3:**

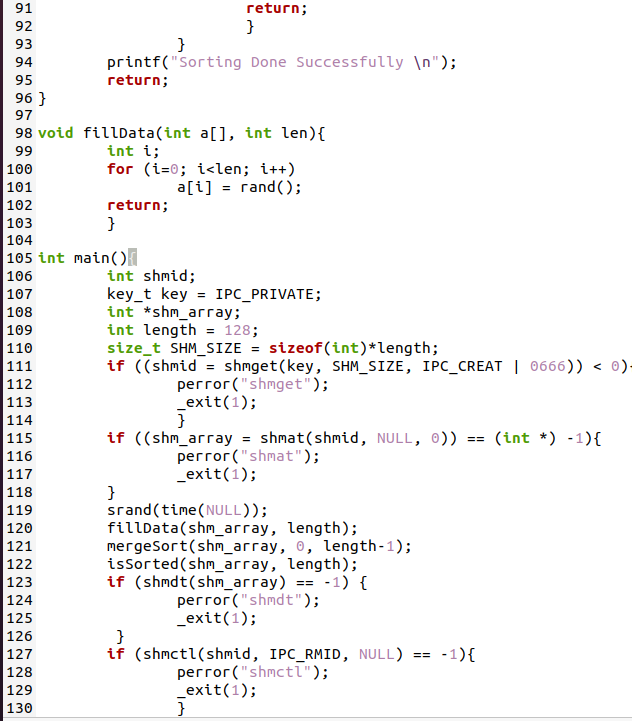
**Write the code for merge sort**

**Solution:**

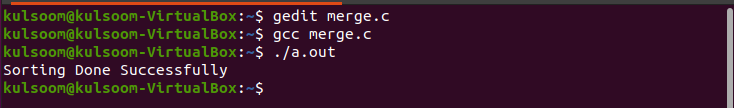
PROGRAM:







OUTPUT AND COMMANDS:



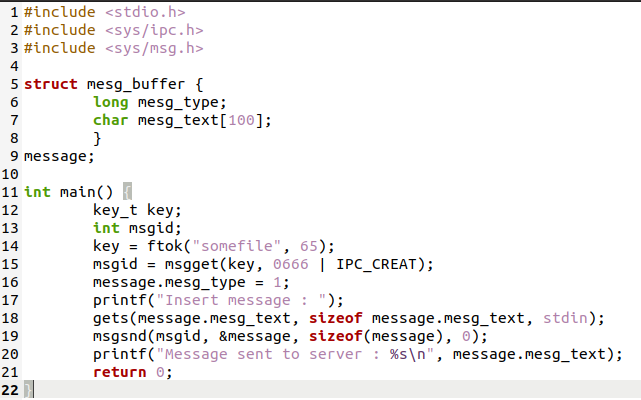
**Question no4:**

**Write the code for chat application using message queue**

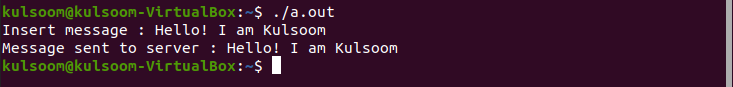
**Solution:**

**CLIENT**

PROGRAM:

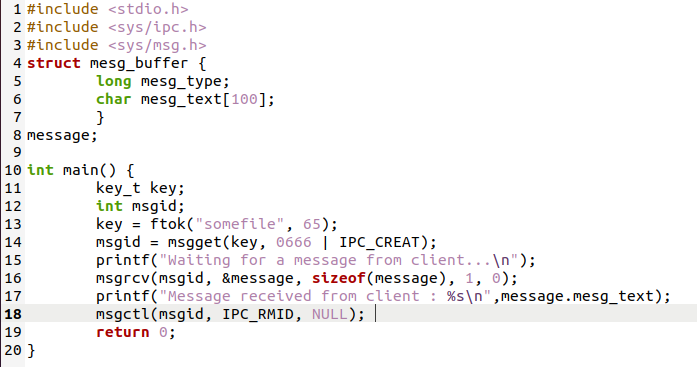


OUTPUT:



**SERVER**

PROGRAM:



OUTPUT:

