

WINDOWS IMPLEMENTATION OF ALL CLIENT-SERVER PROGRAMS

Implementation of the message queues.

```
server_mq.c X client_mq.c
server_mq.c > main()
29 0.

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\6th\np_1> gcc client_sm.c -o client_sm
PS D:\6th\np_1> ./client_sm
Could not open file mapping object (2).
PS D:\6th\np_1> ./client_sm
Enter data to send to the server: 123
PS D:\6th\np_1> gcc client_sm.c -o client_sm
PS D:\6th\np_1> ./client_sm
Enter data to send to the server (type 'exit' to quit): hi
Enter data to send to the server (type 'exit' to quit): exit
PS D:\6th\np_1> gcc client_mq.c -o client_mq
PS D:\6th\np_1> ./server_mq
Server is waiting for data from the client...
PS D:\6th\np_1> ./client_mq
Enter data to send to the server (type 'exit' to quit): hi i am sathvik
Enter data to send to the server (type 'exit' to quit): Enter data to send to the server
(type 'exit' to quit): Enter data to send to the server (type 'exit' to quit): Enter data
to send to the server (type 'exit' to quit): hi
Enter data to send to the server (type 'exit' to quit): i
Enter data to send to the server (type 'exit' to quit): am
Enter data to send to the server (type 'exit' to quit): sathvik
Enter data to send to the server (type 'exit' to quit):

PS D:\6th\np_1> gcc server_sm.c -o server_sm
PS D:\6th\np_1> ./server_sm
Server is waiting for data from the client...
Received data from client: 123
PS D:\6th\np_1> gcc server_sm.c -o server_sm
PS D:\6th\np_1> ./server_sm
Server is waiting for data from the client...
Received data from client: hi
PS D:\6th\np_1> gcc server_mq.c -o server_mq
PS D:\6th\np_1> ./server_mq
Server is waiting for data from the client...
Received data from client: sathvik
Received data from client: hi
Received data from client: i
Received data from client: am
Received data from client: sathvik

```

Implementation of FIFO

```
client_fifo.c server_fifo.c
client_fifo.c > main()
1 #include <windows.h>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\6th\np_1> gcc client_fifo.c -o client_fifo
PS D:\6th\np_1> ./client_fifo
PS D:\6th\np_1> ./client_fifo
PS D:\6th\np_1>

PS D:\6th\np_1> gcc server_fifo.c -o server_fifo
PS D:\6th\np_1> ./server_fifo
Received: Hello, i am sending message in fifo
PS D:\6th\np_1>

```

Implementation of Shared Memory

```
client_sm.c X server_sm.c
client_sm.c > ...
37 Sleep(1000); // Wait for the server to write data

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\6th\np_1> gcc client_sm.c -o client_sm
PS D:\6th\np_1> ./client_sm
Could not open file mapping object (2).
PS D:\6th\np_1> ./client_sm
Client received: hi i can share memory both sides and modify it too
Client: Enter data (type 'exit' to quit):

PS D:\6th\np_1> gcc server_sm.c -o server_sm
PS D:\6th\np_1> ./server_sm
Server is waiting for data from the client...
Server: Enter data (type 'exit' to quit): hi i can share memory both sides and modify it too

```