

8 – First Readers Writers problem

Poulu Prinoon Joseph
48 S6 CSE

This program simulates the readers-writers problem.

Compiling

Compile the file, exp8.c using gcc command and the pthread flag.

```
$ gcc -pthread exp8.c
```

Executing

Execute normally.

```
$ ./a.out
```

Output:

```
poulu@poulu-VirtualBox: ~/Desktop/Networking Lab/Exp 8
poulu@poulu-VirtualBox:~/Desktop/Networking Lab/Exp 8$ ./a.out

Number of Readers: 2
Number of Writers: 5

*****
Initial value of shared_resource: 1
*****

*****
Reader 0: consumed item. shared_resource: 1
Current value of shared_resource: 0

*****
Writer 4 produced item. shared_resource: 1

*****
Reader 1: consumed item. shared_resource: 1
Current value of shared_resource: 0

*****
Writer 3 produced item. shared_resource: 1

*****
Writer 2 produced item. shared_resource: 2

*****
Writer 1 produced item. shared_resource: 3

*****
Writer 0 produced item. shared_resource: 4

*****
shared_resource: 4
*****
poulu@poulu-VirtualBox:~/Desktop/Networking Lab/Exp 8$
```