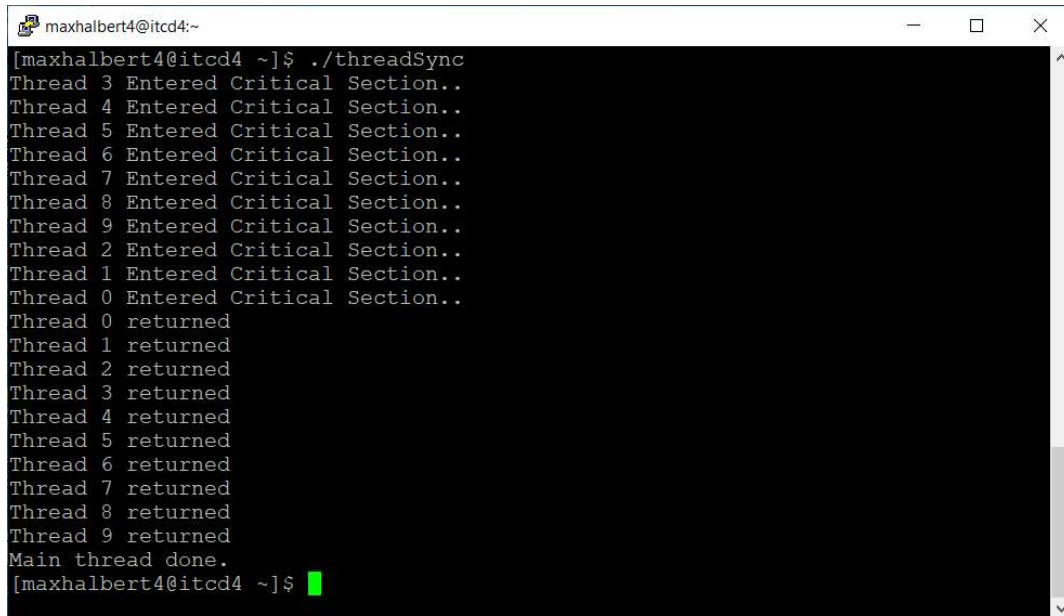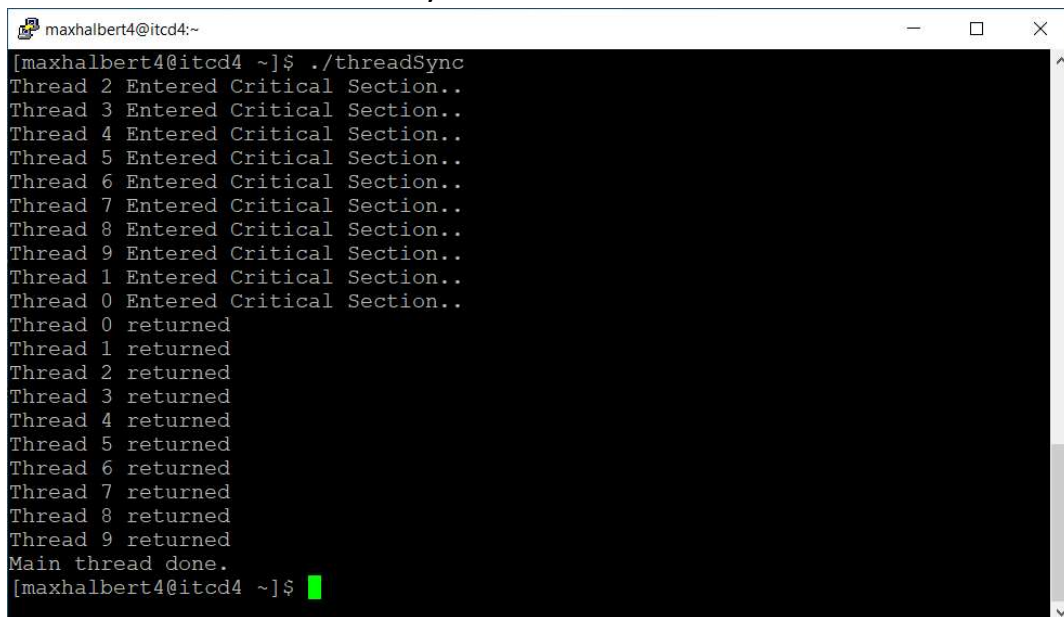Lab 6 Test Run

1. First Test Run of threadSync1


```
[maxhalbert4@itcd4 ~]$ ./threadSync
Thread 3 Entered Critical Section..
Thread 4 Entered Critical Section..
Thread 5 Entered Critical Section..
Thread 6 Entered Critical Section..
Thread 7 Entered Critical Section..
Thread 8 Entered Critical Section..
Thread 9 Entered Critical Section..
Thread 2 Entered Critical Section..
Thread 1 Entered Critical Section..
Thread 0 Entered Critical Section..
Thread 0 returned
Thread 1 returned
Thread 2 returned
Thread 3 returned
Thread 4 returned
Thread 5 returned
Thread 6 returned
Thread 7 returned
Thread 8 returned
Thread 9 returned
Main thread done.
[maxhalbert4@itcd4 ~]$
```

2. Second Test Run of threadSync1


```
[maxhalbert4@itcd4 ~]$ ./threadSync
Thread 2 Entered Critical Section..
Thread 3 Entered Critical Section..
Thread 4 Entered Critical Section..
Thread 5 Entered Critical Section..
Thread 6 Entered Critical Section..
Thread 7 Entered Critical Section..
Thread 8 Entered Critical Section..
Thread 9 Entered Critical Section..
Thread 1 Entered Critical Section..
Thread 0 Entered Critical Section..
Thread 0 returned
Thread 1 returned
Thread 2 returned
Thread 3 returned
Thread 4 returned
Thread 5 returned
Thread 6 returned
Thread 7 returned
Thread 8 returned
Thread 9 returned
Main thread done.
[maxhalbert4@itcd4 ~]$
```

3. Test Run on threadSync2 with One Producer One Consumer with Buffer size 26 which is the default size

```
maxhalbert4@itcd4:~                                        —    □    ×

[maxhalbert4@itcd4 ~]$ ./threadSync2
Producer 0 produced A
Producer 0 produced B
        Consumer 0 consumed A
        Consumer 0 consumed B
Producer 0 produced C
        Consumer 0 consumed C
Producer 0 produced D
Producer 0 produced E
Producer 0 produced F
Producer 0 produced G
        Consumer 0 consumed D
Producer 0 produced H
        Consumer 0 consumed E
Producer 0 produced I
        Consumer 0 consumed F
Producer 0 produced J
        Consumer 0 consumed G
Producer 0 produced K
        Consumer 0 consumed H
Producer 0 produced L
        Consumer 0 consumed I
Producer 0 produced M
        Consumer 0 consumed J
Producer 0 produced N
        Consumer 0 consumed K
Producer 0 produced O
        Consumer 0 consumed L
Producer 0 produced P
        Consumer 0 consumed M
Producer 0 produced Q
        Consumer 0 consumed N
Producer 0 produced R
        Consumer 0 consumed O
Producer 0 produced S
        Consumer 0 consumed P
        Consumer 0 consumed Q
        Consumer 0 consumed R
        Consumer 0 consumed S
Producer 0 produced T
Producer 0 produced U
        Consumer 0 consumed T
        Consumer 0 consumed U
Producer 0 produced V
Producer 0 produced W
        Consumer 0 consumed V
        Consumer 0 consumed W
Producer 0 produced X
        Consumer 0 consumed X
Producer 0 produced Y
        Consumer 0 consumed Y
Producer 0 produced Z
        Consumer 0 consumed Z
Consumer Thread 0 returned
Producer Thread 0 returned
Main thread done.
[maxhalbert4@itcd4 ~]$
```

4. Test Run on threadSync2 with One Producer One Consumer and Buffer size is 1

```
[maxhalbert4@itcd4 ~]$ ./threadSync2 1
Producer 0 produced A
        Consumer 0 consumed A
Producer 0 produced B
        Consumer 0 consumed B
Producer 0 produced C
        Consumer 0 consumed C
Producer 0 produced D
        Consumer 0 consumed D
Producer 0 produced E
        Consumer 0 consumed E
Producer 0 produced F
        Consumer 0 consumed F
Producer 0 produced G
        Consumer 0 consumed G
Producer 0 produced H
        Consumer 0 consumed H
Producer 0 produced I
        Consumer 0 consumed I
Producer 0 produced J
        Consumer 0 consumed J
Producer 0 produced K
        Consumer 0 consumed K
Producer 0 produced L
        Consumer 0 consumed L
Producer 0 produced M
        Consumer 0 consumed M
Producer 0 produced N
        Consumer 0 consumed N
Producer 0 produced O
        Consumer 0 consumed O
Producer 0 produced P
        Consumer 0 consumed P
Producer 0 produced Q
        Consumer 0 consumed Q
Producer 0 produced R
        Consumer 0 consumed R
Producer 0 produced S
        Consumer 0 consumed S
Producer 0 produced T
        Consumer 0 consumed T
Producer 0 produced U
        Consumer 0 consumed U
Producer 0 produced V
        Consumer 0 consumed V
Producer 0 produced W
        Consumer 0 consumed W
Producer 0 produced X
        Consumer 0 consumed X
Producer 0 produced Y
        Consumer 0 consumed Y
Producer 0 produced Z
        Consumer 0 consumed Z
Consumer Thread 0 returned
Producer Thread 0 returned
Main thread done.
[maxhalbert4@itcd4 ~]$
```

5. Test Run threadSync2 with 3 Producers, and 2 Consumers and with default buffer size (26)

```
maxhalbert4@itcd4:~                                       —     □     ×

[maxhalbert4@itcd4 ~]$ ./threadSync2
Producer 2 produced A
Producer 0 produced B
Producer 0 produced C
        Consumer 0 consumed A
Producer 0 produced D
        Consumer 1 consumed B
Producer 2 produced E
Producer 1 produced F
Producer 1 produced G
        Consumer 0 consumed C
Producer 0 produced H
        Consumer 1 consumed D
Producer 0 produced I
Producer 2 produced J
Producer 1 produced K
        Consumer 0 consumed E
        Consumer 1 consumed F
Producer 0 produced L
Producer 2 produced M
Producer 1 produced N
Producer 1 produced O
        Consumer 0 consumed G
Producer 0 produced P
        Consumer 1 consumed H
        Consumer 1 consumed I
        Consumer 0 consumed J
Producer 2 produced Q
Producer 1 produced R
Producer 0 produced S
Producer 2 produced T
Producer 2 produced U
        Consumer 0 consumed K
Producer 1 produced V
Producer 0 produced W
Producer 0 produced X
Producer 2 produced Y
        Consumer 1 consumed L
Producer 1 produced Z
        Consumer 1 consumed M
        Consumer 0 consumed N
        Consumer 1 consumed O
        Consumer 0 consumed P
        Consumer 0 consumed Q
        Consumer 0 consumed R
        Consumer 1 consumed S
        Consumer 1 consumed T
        Consumer 0 consumed U
        Consumer 0 consumed V
        Consumer 0 consumed W
        Consumer 0 consumed X
        Consumer 1 consumed Y
        Consumer 1 consumed Z
Consumer Thread 0 returned
Consumer Thread 1 returned
Producer Thread 0 returned
Producer Thread 1 returned
Producer Thread 2 returned
Main thread done.
[maxhalbert4@itcd4 ~]$
```