

# Lab Assignment 4

## Task1:

```
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment4$ touch task1.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment4$ gedit task1.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment4$ gcc -o task1 task1.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment4$ ./task1
0 produced a by Thread 0
0 consumed a by Thread 1
1 produced b by Thread 0
1 consumed b by Thread 1
2 produced c by Thread 0
2 consumed c by Thread 1
3 produced d by Thread 0
3 consumed d by Thread 1
4 produced e by Thread 0
4 consumed e by Thread 1
5 produced f by Thread 0
5 consumed f by Thread 1
6 produced a by Thread 0
6 consumed a by Thread 1
7 produced b by Thread 0
7 consumed b by Thread 1
8 produced c by Thread 0
8 consumed c by Thread 1
9 produced d by Thread 0
9 consumed d by Thread 1
```

## Task2:

```
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment4$ touch task2.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment4$ gedit task2.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment4$ gcc -o task2 task2.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment4$ ./task2
Farmer 2: Insert crops R at 0
Shop owner 2: Remove crops R from 0
Farmer 2: Insert crops W at 1
Shop owner 1: Remove crops W from 1
Farmer 2: Insert crops P at 2
Shop owner 5: Remove crops P from 2
Farmer 2: Insert crops S at 3
Shop owner 4: Remove crops S from 3
Farmer 2: Insert crops M at 4
Shop owner 3: Remove crops M from 4
Farmer 2: NNNNN
Farmer 3: Insert crops R at 0
Farmer 3: Insert crops W at 1
Shop owner 2: Remove crops R from 0
Shop owner 2: Remove crops W from 1
Farmer 3: Insert crops P at 2
Farmer 3: Insert crops S at 3
Shop owner 4: Remove crops P from 2
Farmer 3: Insert crops M at 4
Farmer 3: NNNSM
Shop owner 3: Remove crops S from 3
Shop owner 5: Remove crops M from 4
Farmer 4: Insert crops R at 0
Farmer 4: Insert crops W at 1
Farmer 4: Insert crops P at 2
Shop owner 4: Remove crops R from 0
Shop owner 2: Remove crops W from 1
Farmer 5: Insert crops R at 3
Farmer 5: Insert crops W at 4
Shop owner 3: Remove crops P from 2
Shop owner 3: Remove crops R from 3
Shop owner 1: Remove crops W from 4
```

```
Farmer 4: Insert crops P at 2
Shop owner 4: Remove crops R from 0
Shop owner 2: Remove crops W from 1
Farmer 5: Insert crops R at 3
Farmer 5: Insert crops W at 4
Shop owner 3: Remove crops P from 2
Shop owner 3: Remove crops R from 3
Shop owner 1: Remove crops W from 4
Farmer 1: Insert crops R at 0
Farmer 1: Insert crops W at 1
Farmer 1: Insert crops P at 2
Shop owner 4: Remove crops R from 0
Farmer 4: Insert crops S at 3
Shop owner 5: Remove crops W from 1
Farmer 4: Insert crops M at 4
Farmer 4: NNPSM
Shop owner 1: Remove crops P from 2
Shop owner 3: Remove crops S from 3
ShopOwner 3: NNNNM
Shop owner 2: Remove crops M from 4
ShopOwner 2: NNNNN
Farmer 1: Insert crops S at 0
Farmer 1: Insert crops M at 1
Farmer 1: SMNNN
Shop owner 4: Remove crops S from 0
ShopOwner 4: NMNNN
Farmer 5: Insert crops P at 2
Farmer 5: Insert crops S at 3
Shop owner 1: Remove crops M from 1
Shop owner 1: Remove crops P from 2
ShopOwner 1: NNNSN
Shop owner 5: Remove crops S from 3
Farmer 5: Insert crops M at 4
Farmer 5: NNNNM
Shop owner 5: Remove crops M from 4
ShopOwner 5: NNNNN
```