

OS Lab Report – Week 6 & 7

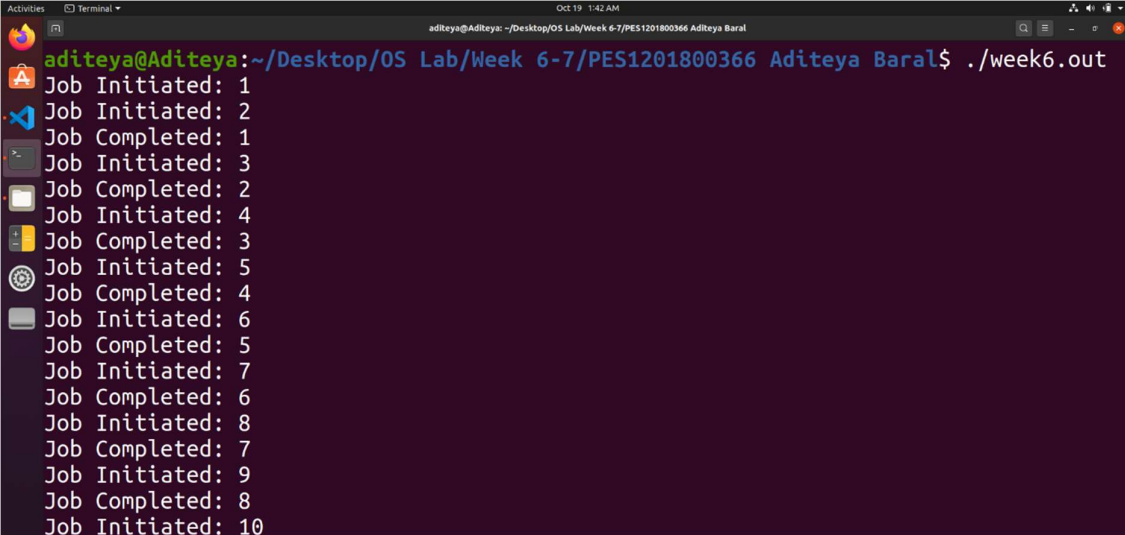
Producer - Consumer Problem

PES1201800366

Aditeya Baral

1. Week 6

Write a C Program to simulate race condition in Producer-Consumer Problem.



```
aditeya@Aditeya: ~/Desktop/OS Lab/Week 6-7/PES1201800366 Aditeya Baral$ ./week6.out
Job Initiated: 1
Job Initiated: 2
Job Completed: 1
Job Initiated: 3
Job Completed: 2
Job Initiated: 4
Job Completed: 3
Job Initiated: 5
Job Completed: 4
Job Initiated: 6
Job Completed: 5
Job Initiated: 7
Job Completed: 6
Job Initiated: 8
Job Completed: 7
Job Initiated: 9
Job Completed: 8
Job Initiated: 10
```

2. Week 7

Write a C Program to simulate race condition in Producer-Consumer Problem using Mutex to prevent race condition.



```
aditeya@Aditeya: ~/Desktop/OS Lab/Week 6-7/PES1201800366 Aditeya Baral$ ./week7.out
Job Initiated: 1
Job Completed: 1
Job Initiated: 2
Job Completed: 2
Job Initiated: 3
Job Completed: 3
Job Initiated: 4
Job Completed: 4
Job Initiated: 5
Job Completed: 5
Job Initiated: 6
Job Completed: 6
Job Initiated: 7
Job Completed: 7
Job Initiated: 8
Job Completed: 8
Job Initiated: 9
Job Completed: 9
```