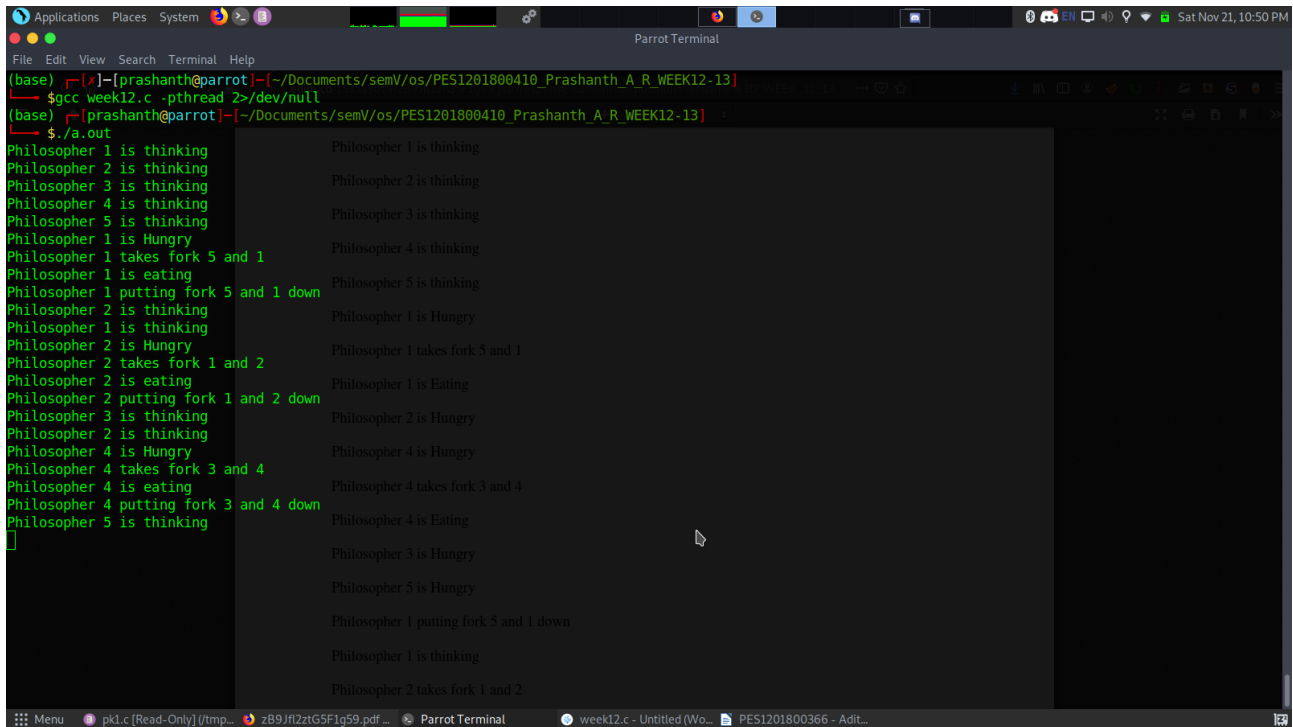
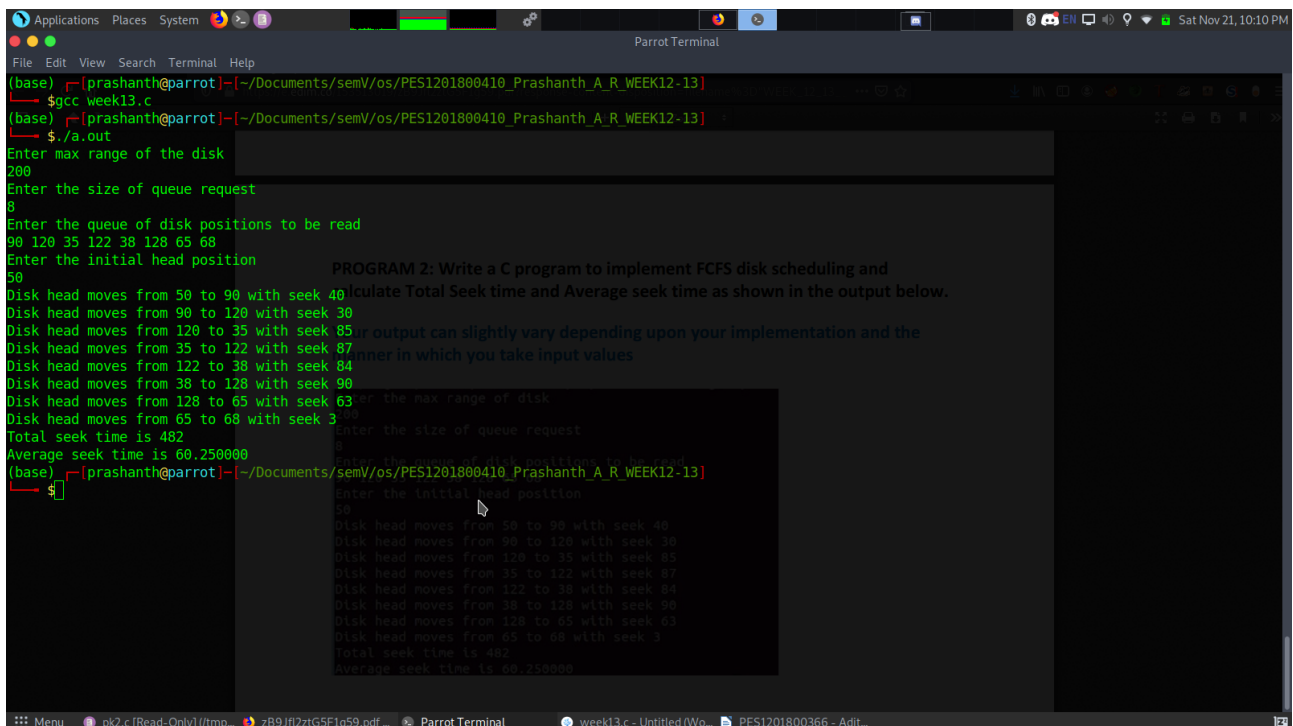


## Week 12



```
(base) [prashanth@parrot] ~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK12-13
$ gcc week12.c -pthread 2>/dev/null
(base) [prashanth@parrot] ~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK12-13
$ ./a.out
Philosopher 1 is thinking
Philosopher 2 is thinking
Philosopher 3 is thinking
Philosopher 4 is thinking
Philosopher 5 is thinking
Philosopher 1 is Hungry
Philosopher 1 takes fork 5 and 1
Philosopher 1 is eating
Philosopher 1 putting fork 5 and 1 down
Philosopher 2 is thinking
Philosopher 1 is thinking
Philosopher 2 is Hungry
Philosopher 2 takes fork 1 and 2
Philosopher 2 is eating
Philosopher 2 putting fork 1 and 2 down
Philosopher 3 is thinking
Philosopher 2 is thinking
Philosopher 4 is Hungry
Philosopher 4 takes fork 3 and 4
Philosopher 4 is eating
Philosopher 4 putting fork 3 and 4 down
Philosopher 5 is thinking
Philosopher 1 is thinking
Philosopher 2 takes fork 1 and 2
Philosopher 3 is Hungry
Philosopher 5 is Hungry
Philosopher 1 putting fork 5 and 1 down
Philosopher 1 is thinking
Philosopher 2 takes fork 1 and 2
```

## Week 13



```
(base) [prashanth@parrot] ~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK12-13
$ gcc week13.c
(base) [prashanth@parrot] ~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK12-13
$ ./a.out
Enter max range of the disk
200
Enter the size of queue request
8
Enter the queue of disk positions to be read
90 120 35 122 38 128 65 68
Enter the initial head position
50
Disk head moves from 50 to 90 with seek 40
Disk head moves from 90 to 120 with seek 30
Disk head moves from 120 to 35 with seek 85
Disk head moves from 35 to 122 with seek 87
Disk head moves from 122 to 38 with seek 84
Disk head moves from 38 to 128 with seek 90
Disk head moves from 128 to 65 with seek 63
Disk head moves from 65 to 68 with seek 3
Total seek time is 482
Average seek time is 60.250000
(base) [prashanth@parrot] ~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK12-13
$
```