OS Lab Week 12 and 13

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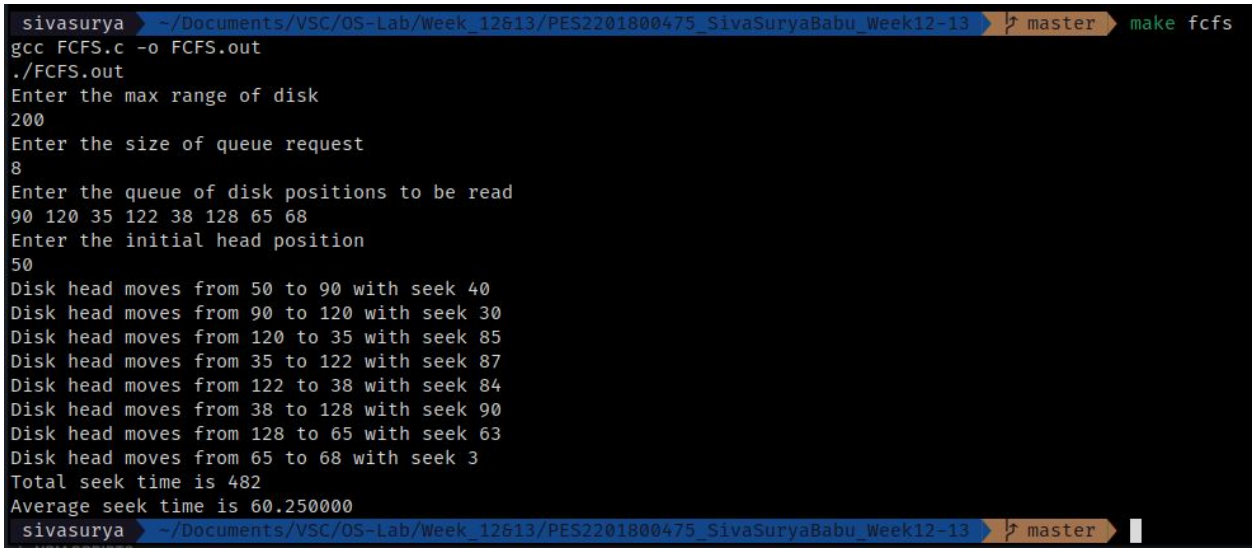
Sem 5 Section F

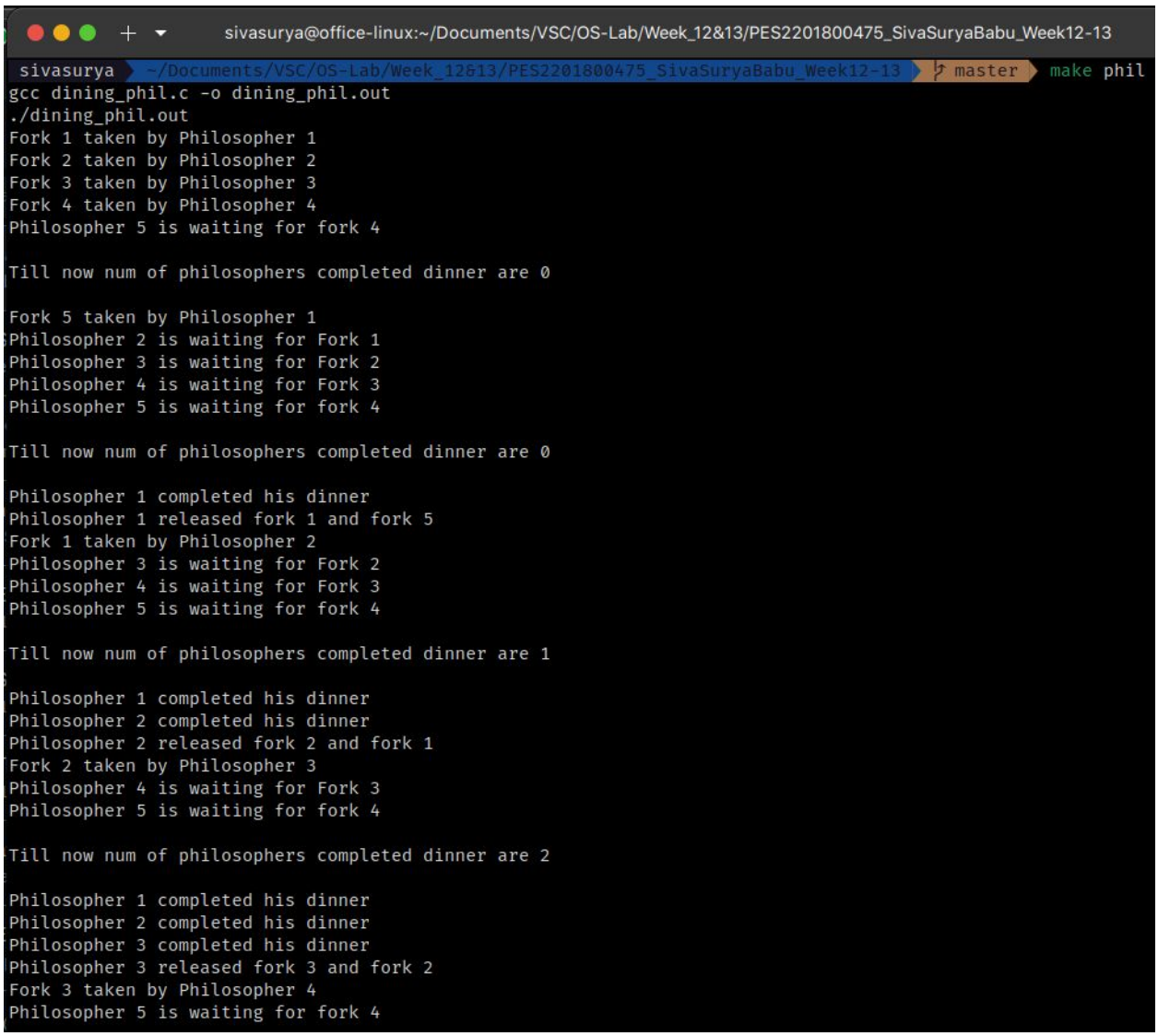
Make file

```
fcfs:
    gcc FCFS.c -o FCFS.out
    ./FCFS.out

phil:
    gcc dining_phil.c -o dining_phil.out
    ./dining_phil.out

clean:
    rm -f *.out
```

Program 2: Write a C program to implement FCFS disk scheduling and calculate Total Seek time and Average seek time as shown in the output below.



Program 1: Write a C program that simulates the Dining-Philosophers problem



```
Till now num of philosophers completed dinner are 2

Philosopher 1 completed his dinner
Philosopher 2 completed his dinner
Philosopher 3 completed his dinner
Philosopher 3 released fork 3 and fork 2
Fork 3 taken by Philosopher 4
Philosopher 5 is waiting for fork 4

Till now num of philosophers completed dinner are 3

Philosopher 1 completed his dinner
Philosopher 2 completed his dinner
Philosopher 3 completed his dinner
Philosopher 4 completed his dinner
Philosopher 4 released fork 4 and fork 3
Fork 4 taken by philosopher 5

Till now num of philosophers completed dinner are 4

Philosopher 1 completed his dinner
Philosopher 2 completed his dinner
Philosopher 3 completed his dinner
Philosopher 4 completed his dinner
Fork 5 taken by philosopher 5

Till now num of philosophers completed dinner are 4

Philosopher 1 completed his dinner
Philosopher 2 completed his dinner
Philosopher 3 completed his dinner
Philosopher 4 completed his dinner
Philosopher 5 completed his dinner
Philosopher 5 released fork 5 and fork 4

Till now num of philosophers completed dinner are 5

 sivasurya  ~/Documents/VSC/OS-Lab/Week_12&13/PES2201800475_SivaSuryaBabu_Week12-13  master
```