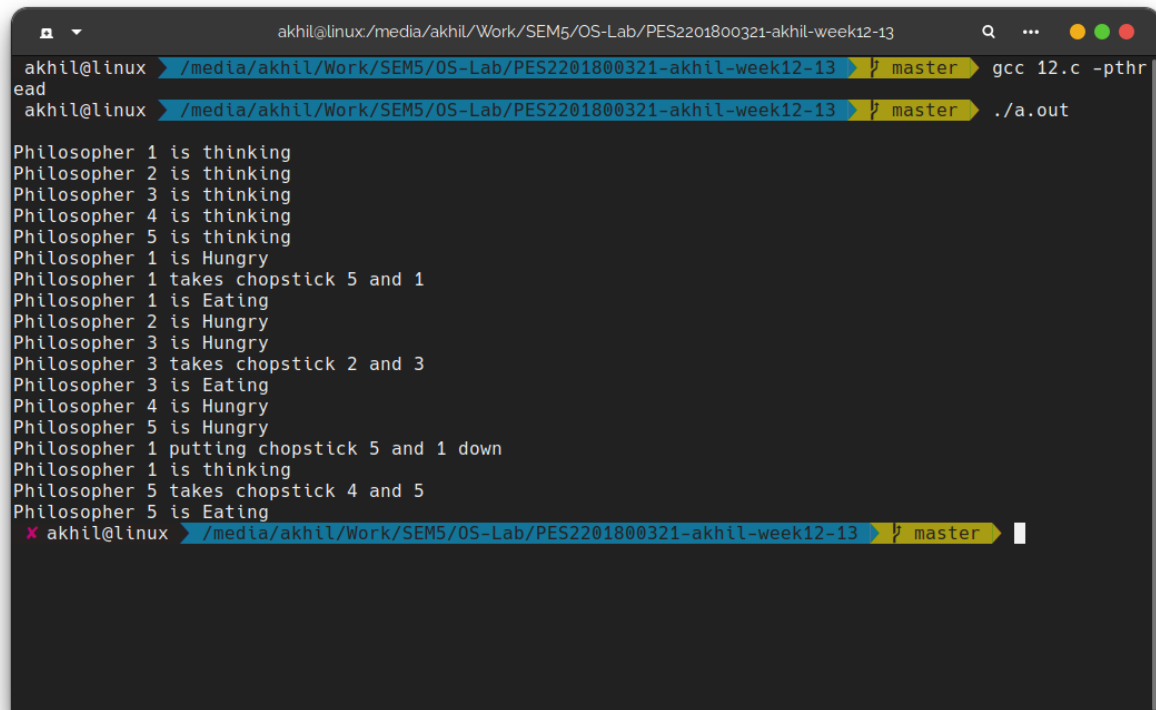


OS LAB WEEK 12-13

- PES2201800321 , Akhil Khubchandani

OUTPUT-1

A terminal window with a dark background and light text. The title bar at the top reads 'akhil@linux:/media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13'. The terminal shows the user 'akhil@linux' at the prompt. The first command is 'gcc 12.c -pthread', which is partially visible as 'gcc 12.c -pthr'. The second command is './a.out'. The output of the program is a series of status messages for five philosophers: '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 chopstick 5 and 1', 'Philosopher 1 is Eating', 'Philosopher 2 is Hungry', 'Philosopher 3 is Hungry', 'Philosopher 3 takes chopstick 2 and 3', 'Philosopher 3 is Eating', 'Philosopher 4 is Hungry', 'Philosopher 5 is Hungry', 'Philosopher 1 putting chopstick 5 and 1 down', 'Philosopher 1 is thinking', 'Philosopher 5 takes chopstick 4 and 5', and 'Philosopher 5 is Eating'. The prompt returns to 'akhil@linux' with a red 'x' icon on the left.

```
akhil@linux > /media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13 > master > gcc 12.c -pthread
akhil@linux > /media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13 > master > ./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 chopstick 5 and 1
Philosopher 1 is Eating
Philosopher 2 is Hungry
Philosopher 3 is Hungry
Philosopher 3 takes chopstick 2 and 3
Philosopher 3 is Eating
Philosopher 4 is Hungry
Philosopher 5 is Hungry
Philosopher 1 putting chopstick 5 and 1 down
Philosopher 1 is thinking
Philosopher 5 takes chopstick 4 and 5
Philosopher 5 is Eating
x akhil@linux > /media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13 > master >
```

OUTPUT -2

```
akhil@linux /media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13
akhil@linux /media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13 master gcc 13.c
akhil@linux /media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13 master ./a.out
Enter the maximum range of disk:200
Enter the size of queue request:8
Enter the list 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: 482
Average seek time: 60.250000
akhil@linux /media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13 master a a ak
akhil@linux /media/akhil/Work/SEM5/OS-Lab/PES2201800321-akhil-week12-13 master
```