Assignment-3

CS-220 Operating Systems

THREADS & RACE CONDITIONS

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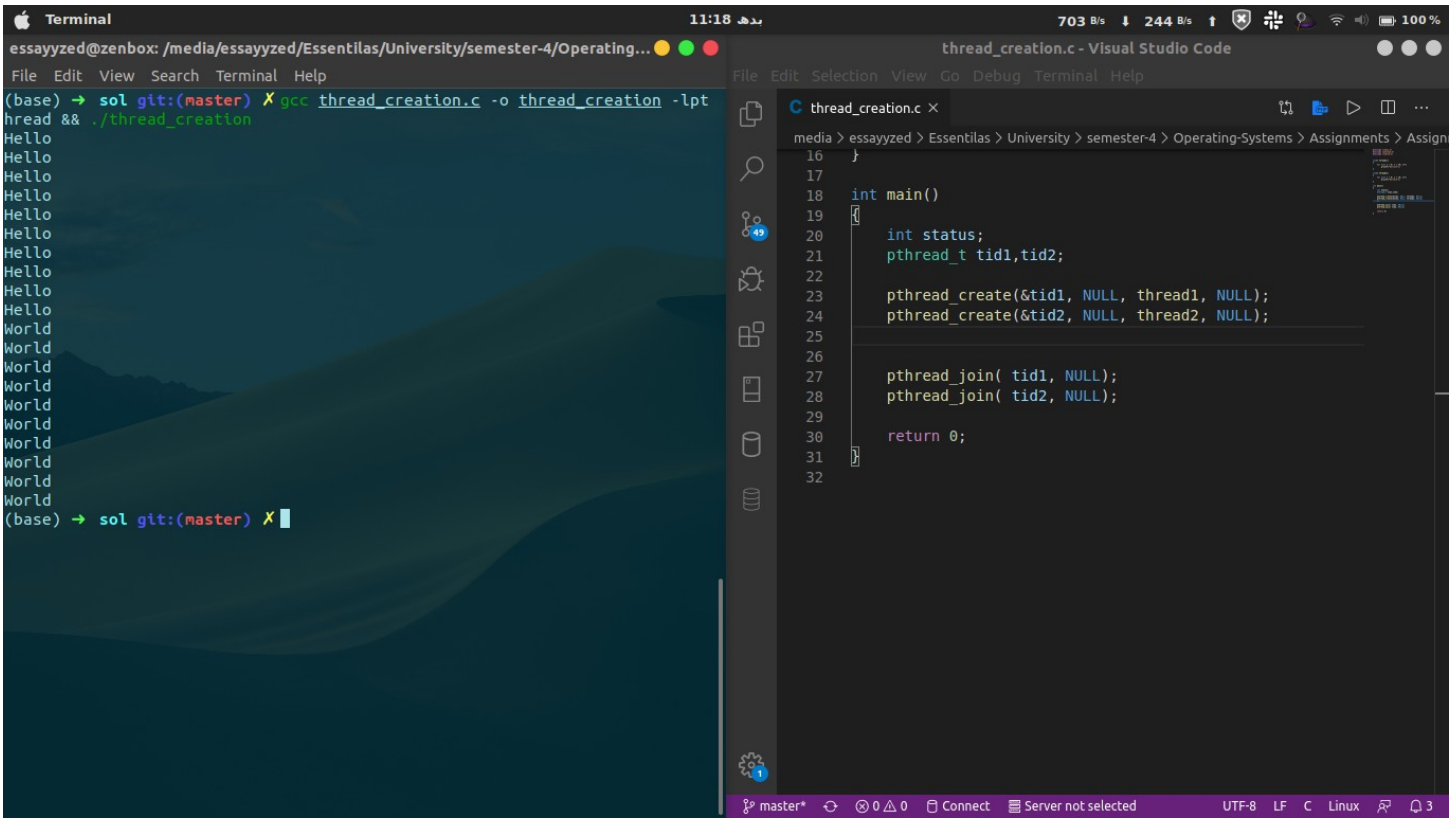
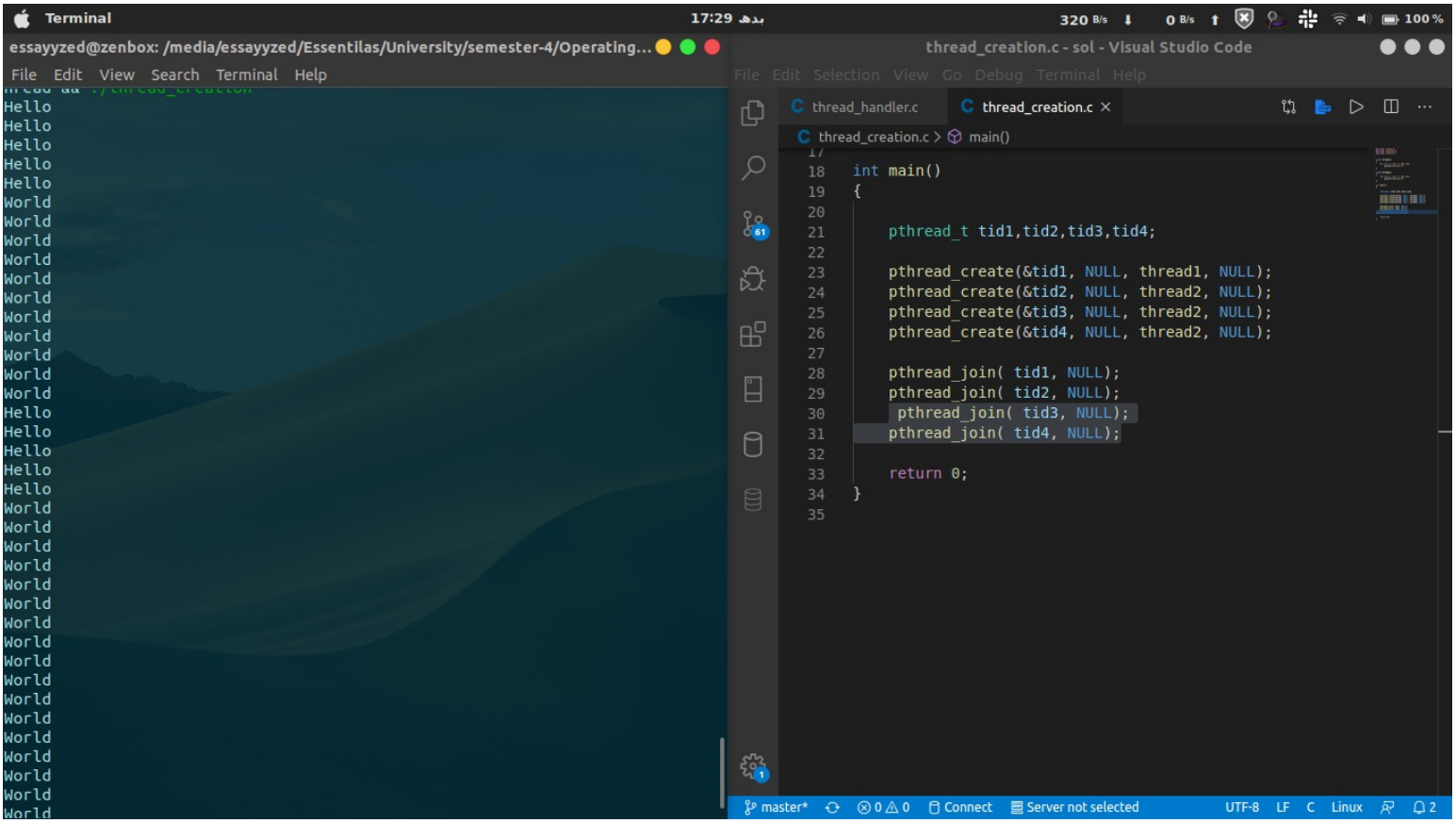
p18-0034
(B)

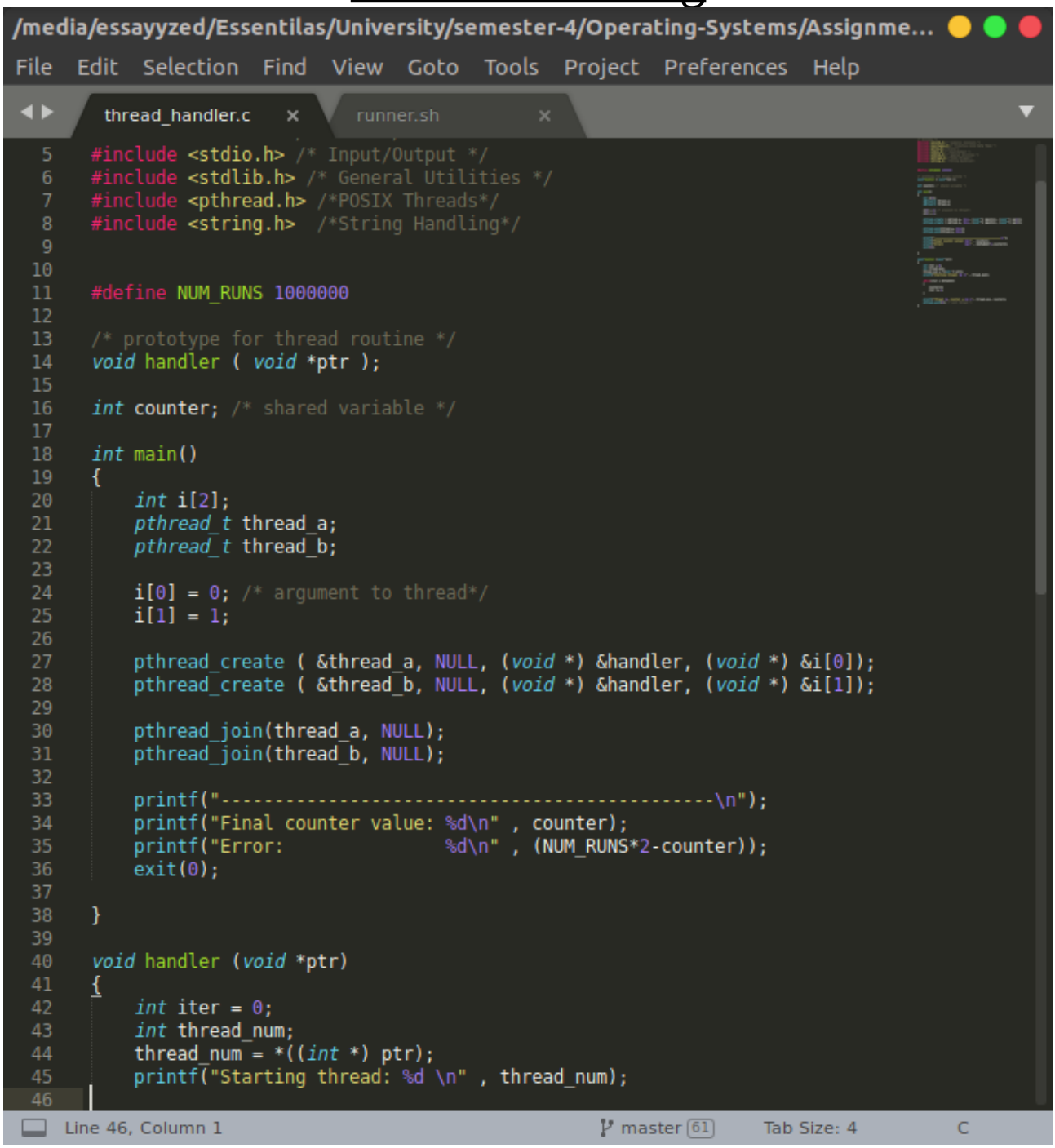
1.
THREAD CREATION(2 Threads)

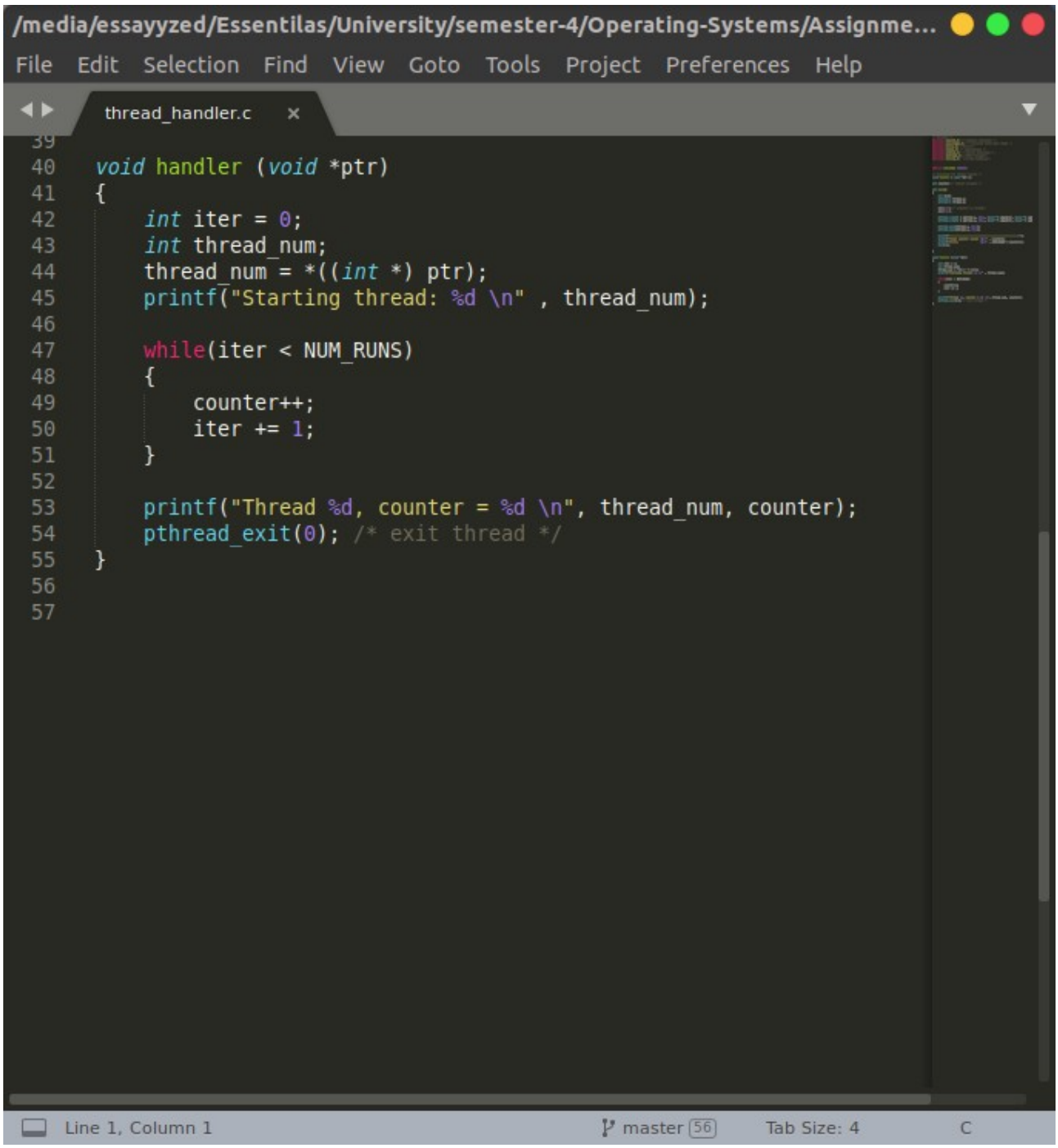


Thread Creation(4 Threads)



2.
Thread Handling

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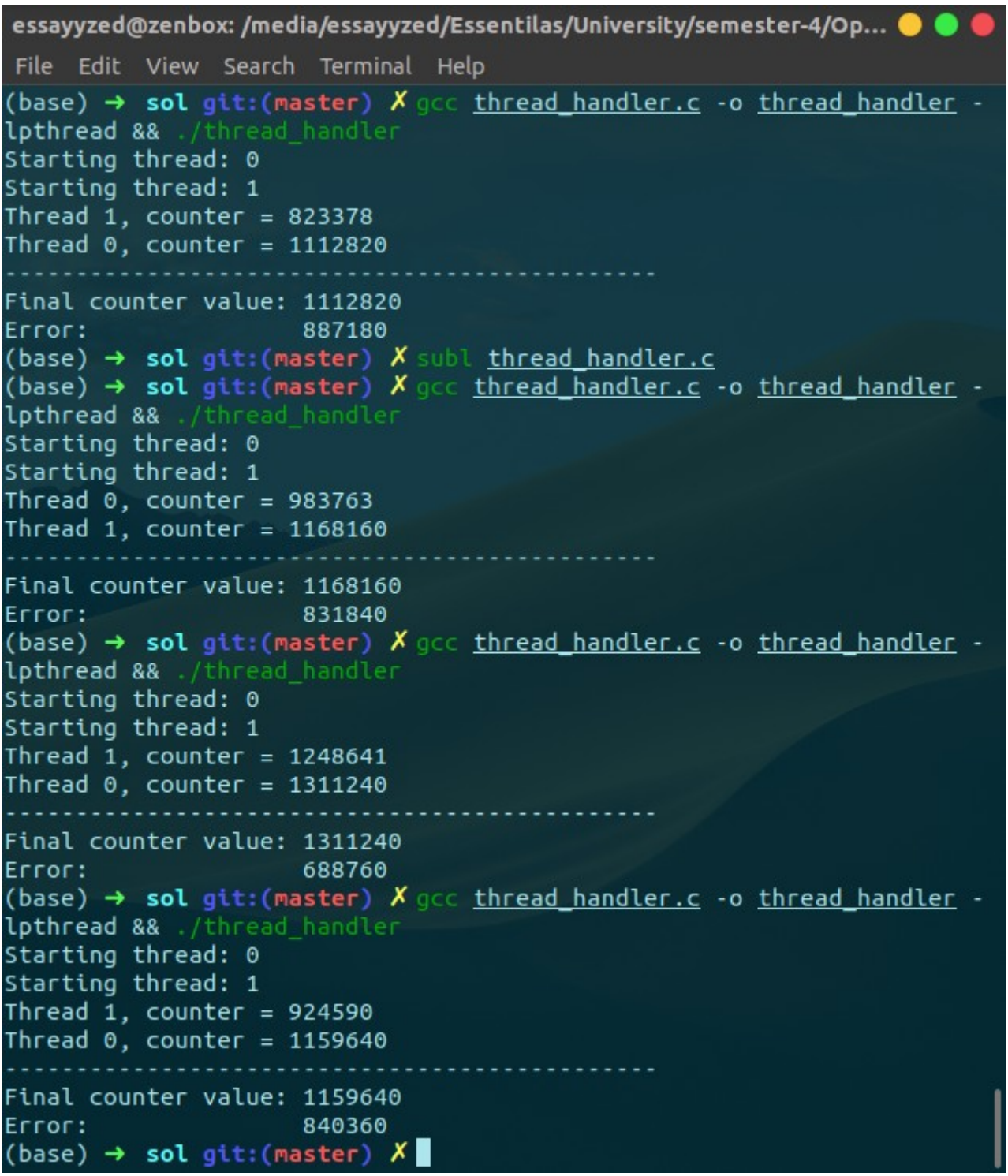
File Edit Selection Find View Goto Tools Project Preferences Help
thread_handler.c
39
40 void handler (void *ptr)
41 {
42 int iter = 0;
43 int thread_num;
44 thread_num = *((int *) ptr);
45 printf("Starting thread: %d \n" , thread_num);
46
47 while(iter < NUM_RUNS)
48 {
49 counter++;
50 iter += 1;
51 }
52
53 printf("Thread %d, counter = %d \n", thread_num, counter);
54 pthread_exit(0); /* exit thread */
55 }
56
57
Line 1, Column 1
master 56
Tab Size: 4
C



ANSWERS

1.

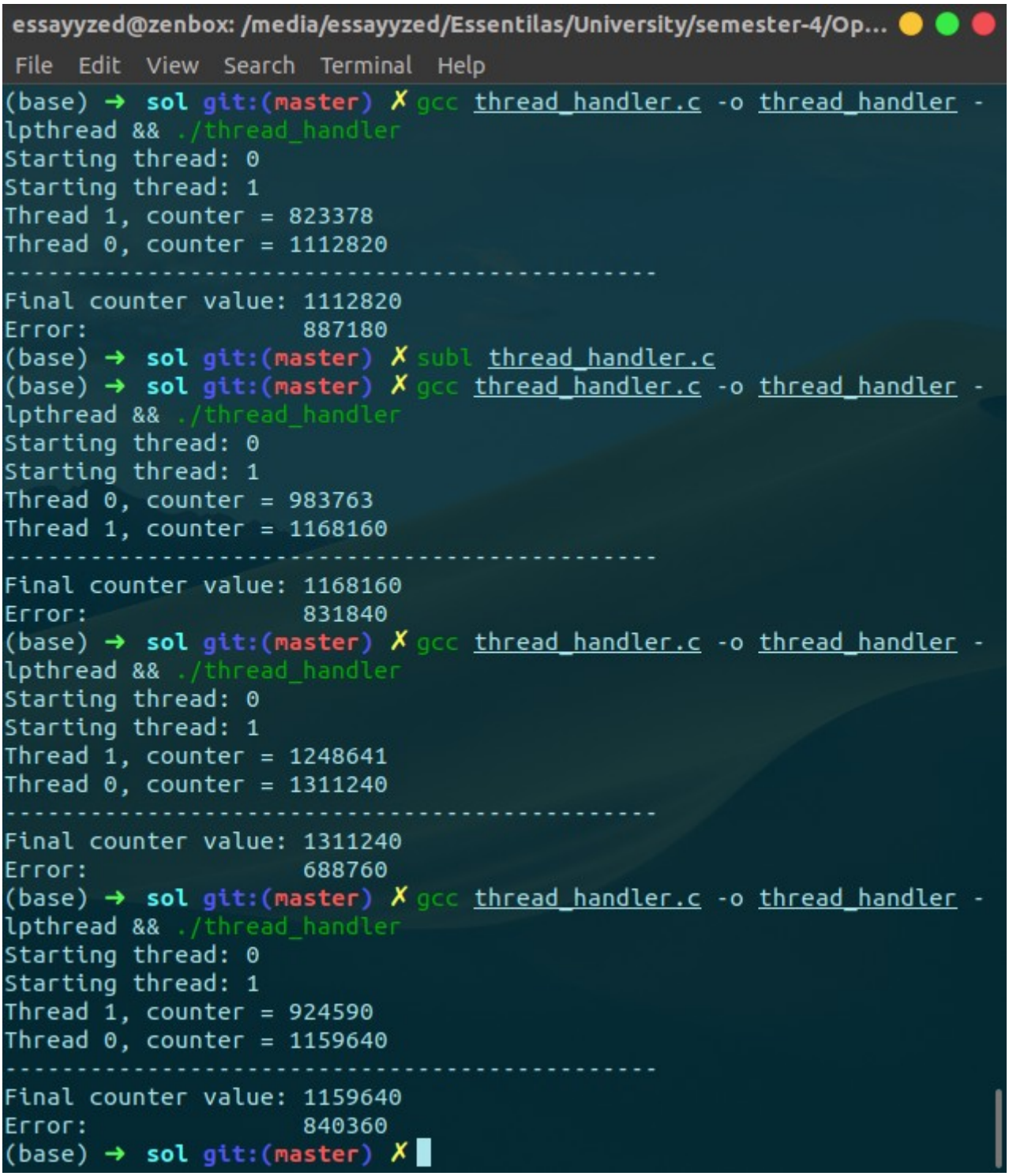
The Value of ***Container*** *variable should be the sum of* ***Thread0 & Thread1.*** *But it's only the value of* ***Thread0 i.e. value is overriden.***

2.

The value I m getting is of ***Thread0.***

3.

The value of error is different when it is running multiple time.
Roughly its about 60% - 70%.
As Follows:



4.

User Time I get is Roughly 0.010200ms on average.