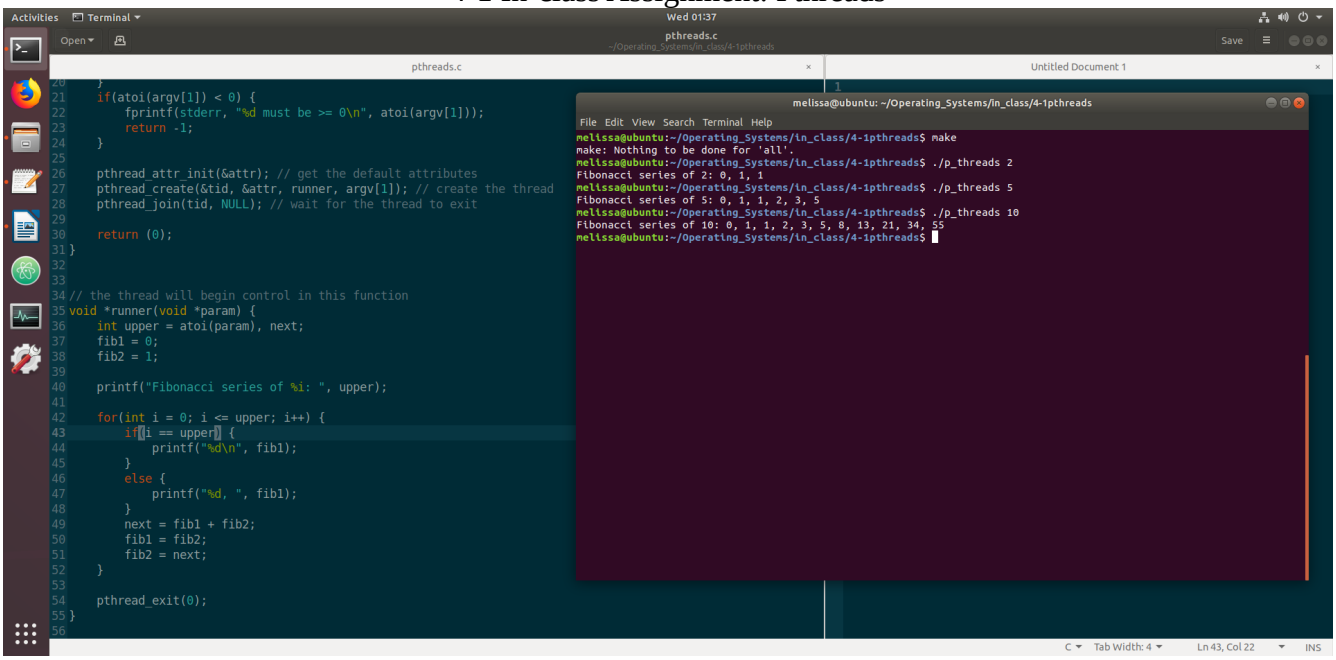
4-1 In-class Assignment: Pthreads




```c
    }
    if(atoi(argv[1]) < 0) {
        fprintf(stderr, "%d must be >= 0\n", atoi(argv[1]));
        return -1;
    }

    pthread_attr_init(&attr); // get the default attributes
    pthread_create(&tid, &attr, runner, argv[1]); // create the thread
    pthread_join(tid, NULL); // wait for the thread to exit

    return (0);
}


// the thread will begin control in this function
void *runner(void *param) {
    int upper = atoi(param), next;
    fib1 = 0;
    fib2 = 1;

    printf("Fibonacci series of %i: ", upper);

    for(int i = 0; i <= upper; i++) {
        if(i == upper) {
            printf("%d\n", fib1);
        }
        else {
            printf("%d, ", fib1);
        }
        next = fib1 + fib2;
        fib1 = fib2;
        fib2 = next;
    }

    pthread_exit(0);
}

```