CS4375-13948 Fall 2023
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Homework Report
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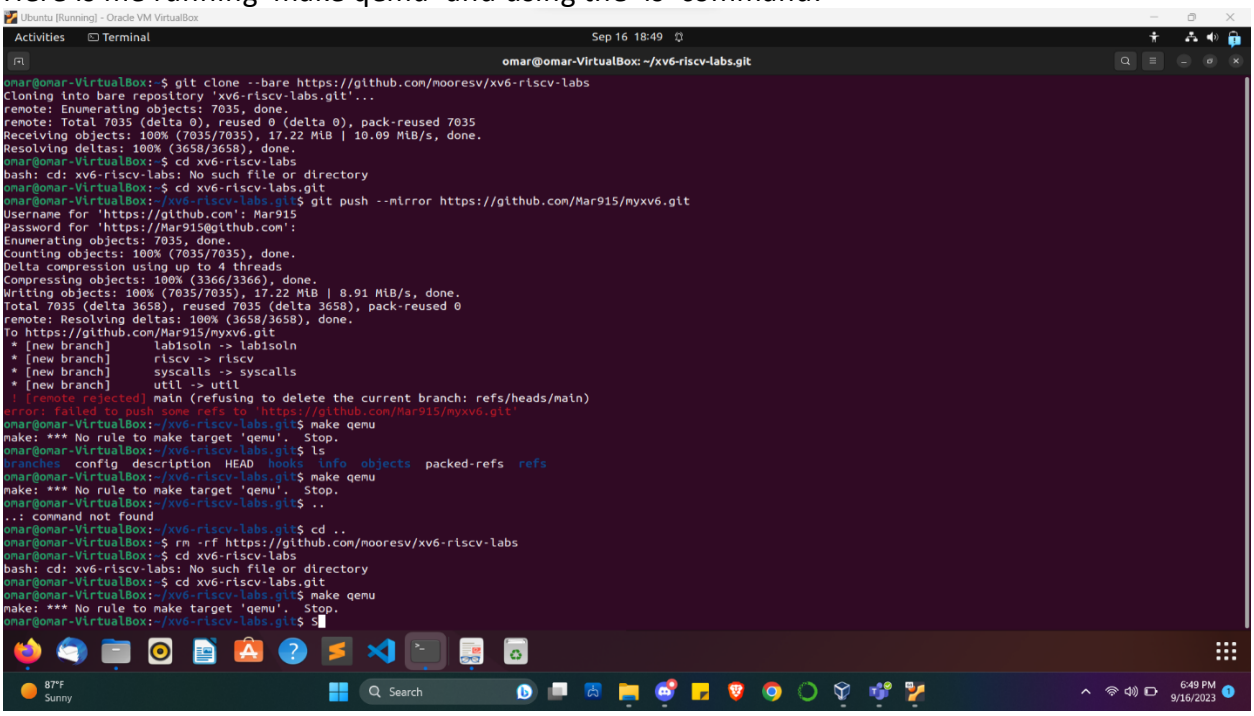
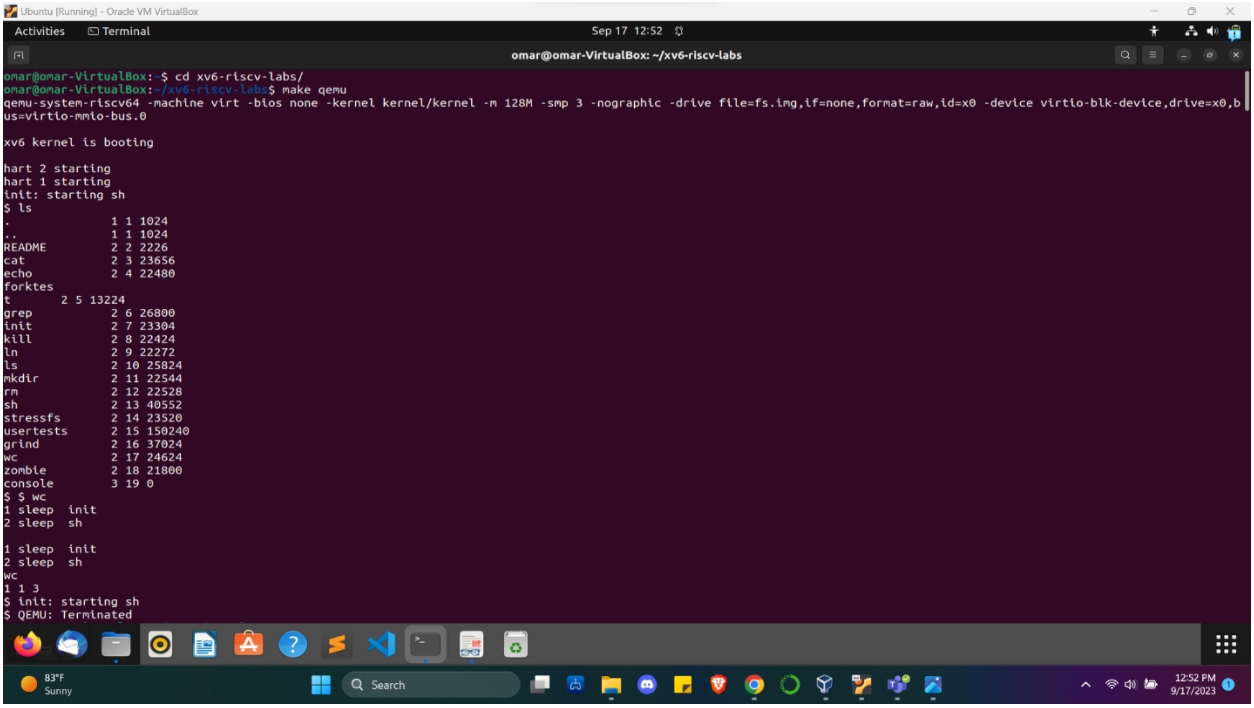
HW 1: Introduction to xv6

https://github.com/Mar915/myxv6.git

Task 1. Boot xv6 and explore utilities
I used the virtual machine “Oracle VM Virtualbox” and used Ubuntu 22.04 LTS (Jammy Jellyfish).

Here is me running ‘make qemu’ and using the ‘ls’ command:

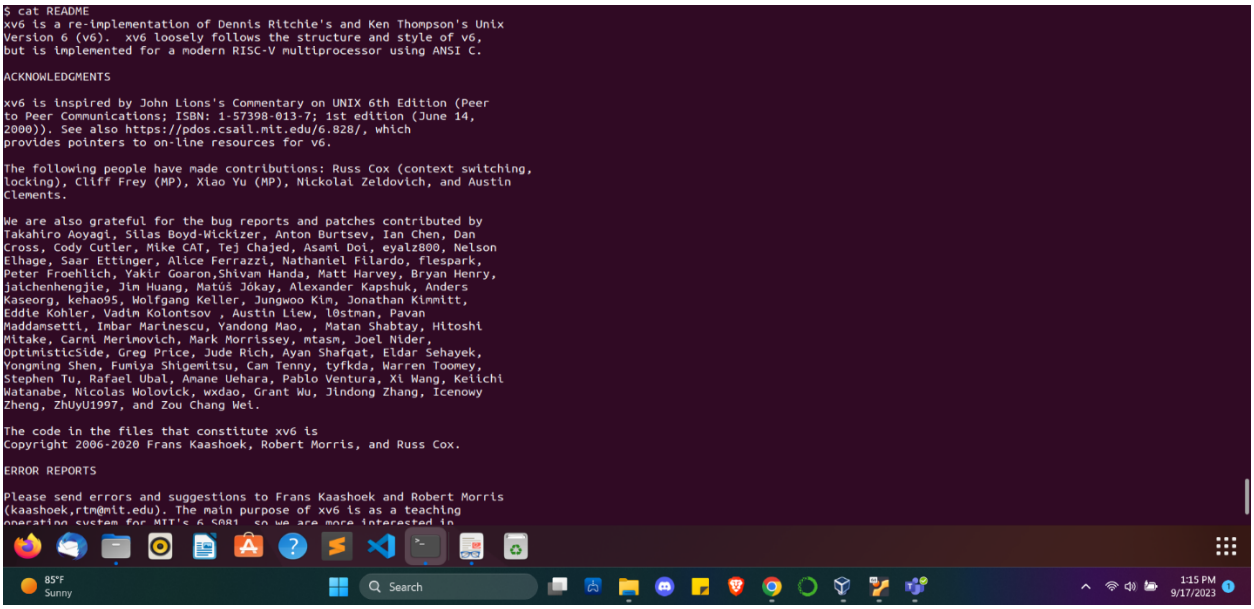




- **Echo**
  Prints messages or text on the terminal console.

- **Wc**
  Stands for “word count” and it counts the number of words, lines, and characters in a text file.

- **Cat**
  Concatenates and displays the contents of one or more text files.



The difficulties I had was cloning and mirroring the repositories. How I overcame it was asking the TA for help and both of us troubleshooting the problem.

Task 2. Implement the uptime utility

My main issue was getting the C compiler to run my uptime.c through the Makefile. It would not create an executable for some reason which in turn would error out the whole xv6 system. My solution to that was running uptime.c in my desktop with a simple “Hello World” printing statement in order to get the executable to be produced. I then added the C file and executable and was able to run the Makefile with no problem.