CS4375-13948 Fall 2023 Homework Report

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**HW 1: Introduction to xv6**

Task 1. Boot xv6 and explore utilities

I am using the UMT virtual machine on my mac book with the m2 chip.

This is the result of ls command:

A screenshot of a computer program

Description automatically generated

To demonstrate how the cat command work I first created a text file in the directory with text that read “hello” then concatenate the contents of the file that you give it. In this case we used cat on test.txt which write “hello” to the console:

A screenshot of a computer

Description automatically generated

To demonstrate the “rm” command we used it on the test.txt file we have made in the demonstration before. As we can see when we enter rm test.txt it will remove the file

A screenshot of a computer

Description automatically generated

Lastly I used the mkdir to create a directory :

A screenshot of a computer

Description automatically generated

Task 2. Implement the uptime utility.

To get this utility to work was fairly simple, as the most important line of code was given to us, that would be the “uptime().” This function would just have needed to go in a c file in the directory. So, from the coding there wasn’t much heavy learning, but what I learned most from was using Linux, ubuntu, and Vim. Using the terminal to navigate directories as well as run and edit code and processes, was something that I learned heavily from this assignment. I believe the most challenging part of this assignment was how to install Linux ubuntu on a mac device. That is where I had the most trouble. This was solved by getting watching some YouTube videos and following the steps to set up a virtual machine for my specific situation.