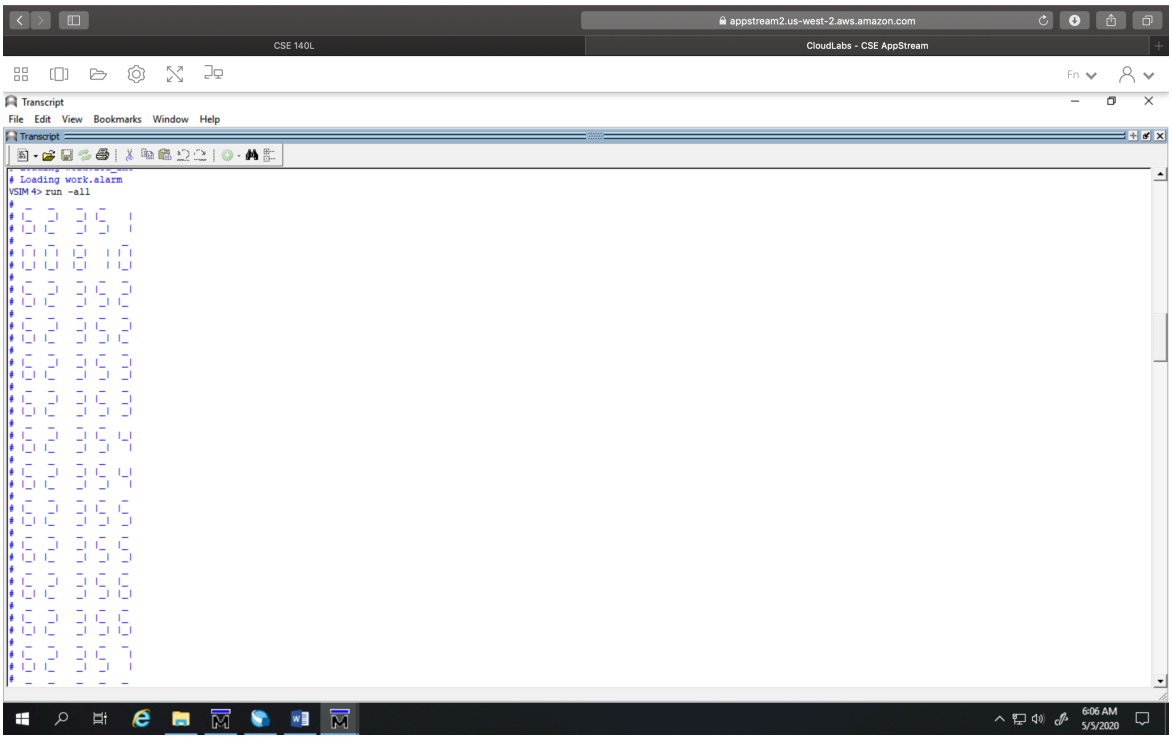
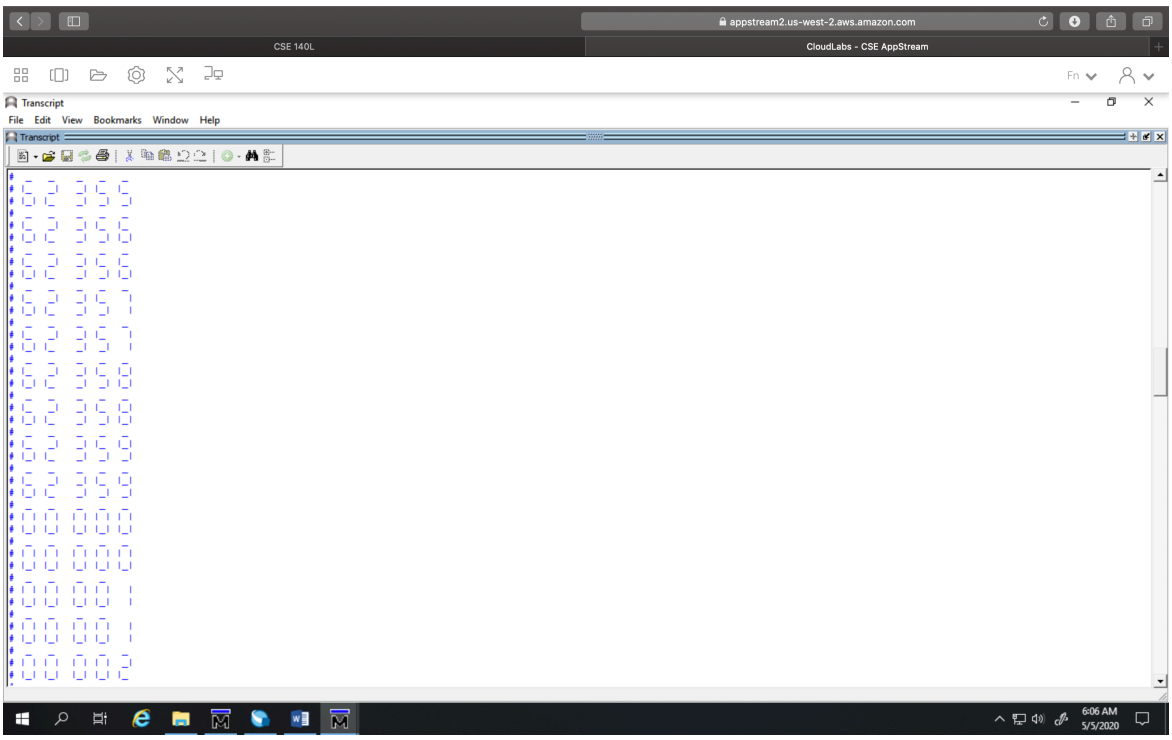
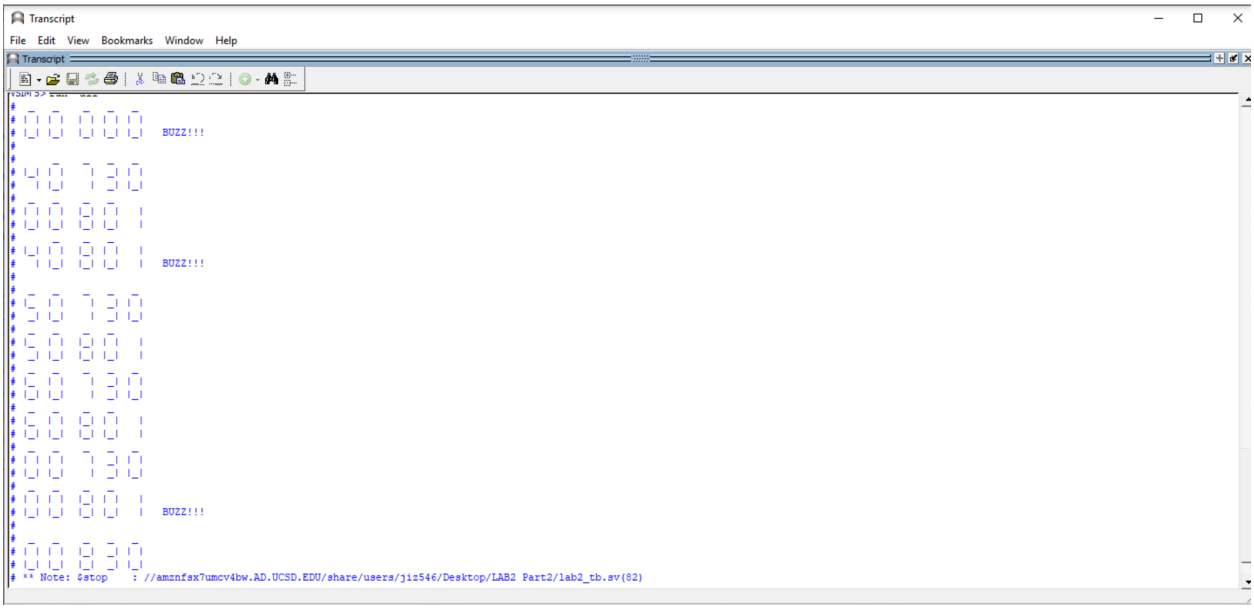
Lab2 Part 2 Report

In this particular part I use 0-6 to represent Monday to Sunday as shown in the below transcripts. The first line is the Current time I set, the second line is the alarm time I set, and also the rest is just running of time. I mainly tested for these few things:

1. Here is the case when I set time to be the last few minutes on Saturday to see if all my minutes, hours and day will rollover correctly. This also displays 30ns per iteration so there are two entries.






2.Secondly I just followed the instruction for part2, I wrote my own test bench because at the time I don't know one is prepared for us, but it's doing the exact same thing the instruction ask for. Basically it displays the time before setting once, set time to Friday 7:30, and 8:01 for the alarm. Then I adjust the test bench so it tick for 31 minutes to see the alarm buzzes on Friday 8:01. Then tick for a day to Saturday, tick for 31 minutes to see the alarm doesn't buzz. Same for Sunday, then goes to Monday when Alarm will buzz again.