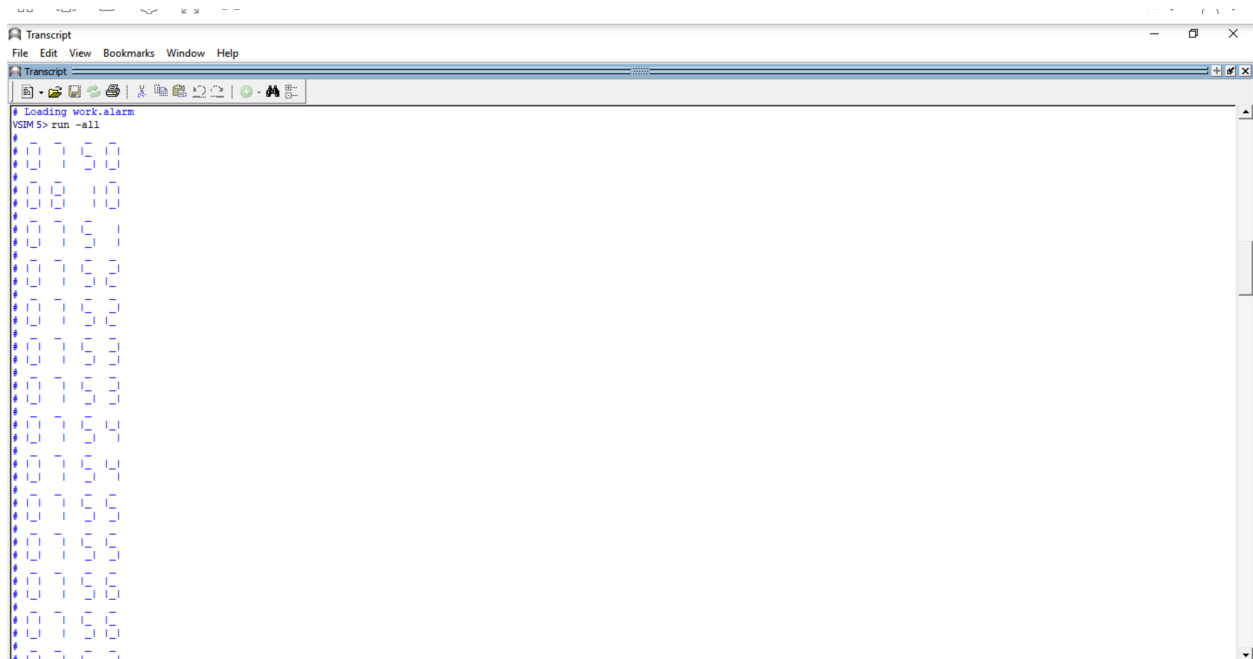


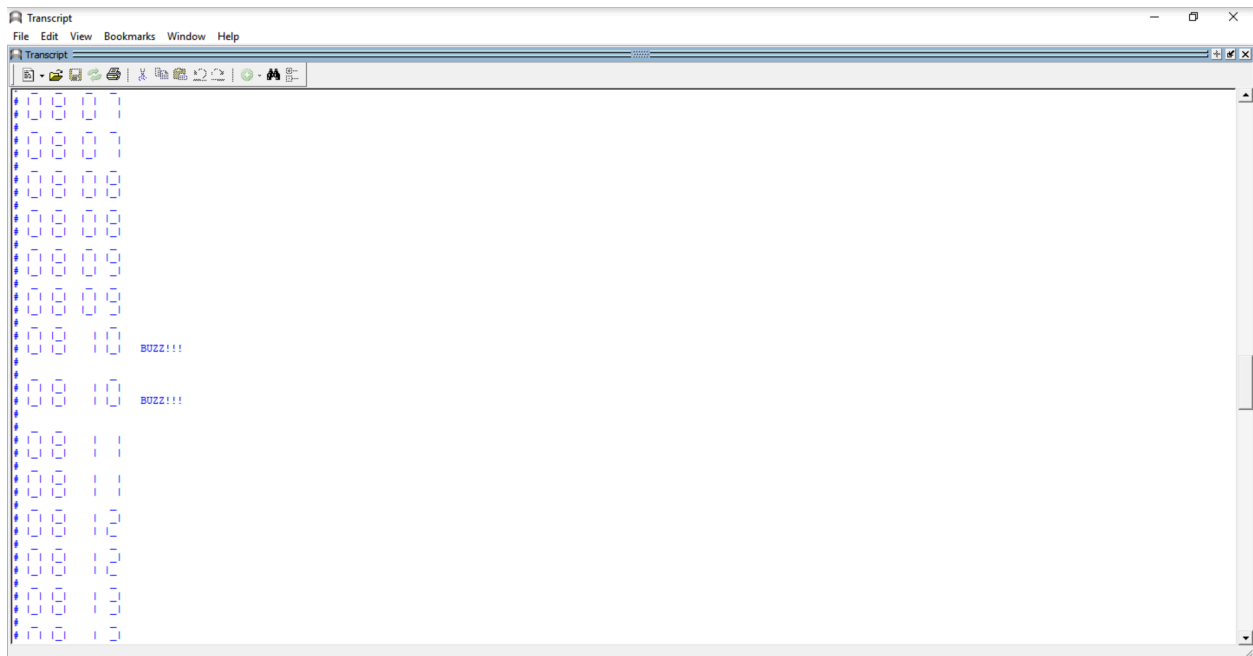
Lab2 Part1 Report

For Part 1 I mainly tested two things and here's the transcript screenshot:

1. The alarm will buzz at the correct time set. The first line is the time I set to be the current time, the second line is the time I set for the alarm. The rest is just the running of time displayed. The two screenshot results from one time of running.

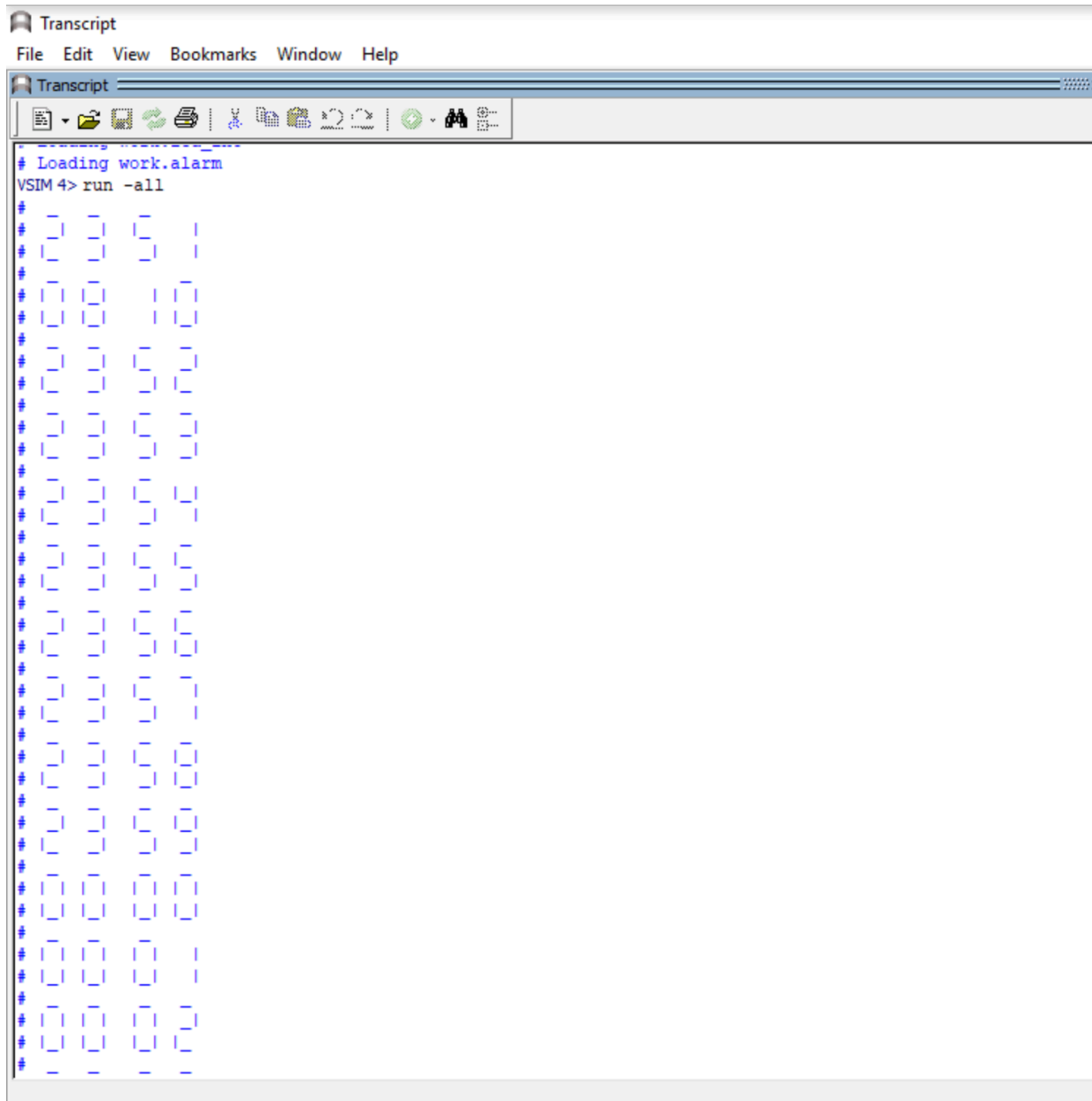


```
Transcript
File Edit View Bookmarks Window Help
Transcript
Loading work.alarm
VSIM S> run -all
07 50
08 10
07 51
07 52
07 52
07 53
07 53
07 54
07 54
07 55
07 55
07 56
07 56
07 57
```



```
Transcript
File Edit View Bookmarks Window Help
Transcript
08 07
08 07
08 08
08 08
08 09
08 09
08 10 BOZZ!!!
08 10 BOZZ!!!
08 11
08 11
08 12
08 12
08 13
09 13
```

2. Secondly I tested if the time will rollover correctly from 23:59 to 00:00. It displays only once because I adjust the running of time in the loop to be 60ns instead of 30ns as above test cases.



The screenshot shows a VSIM 4 Transcript window with a menu bar (File, Edit, View, Bookmarks, Window, Help) and a toolbar. The transcript content is as follows:

```
# Loading work.alarm
VSIM 4> run -all
#
# 23 59
#
# 00 00
#
# 23 59
#
# 23 59
#
# 23 59
#
# 23 59
#
# 23 59
#
# 23 59
#
# 23 59
#
# 23 59
#
# 00 00
#
# 00 00
#
# 00 00
#
```

The output shows a sequence of time values. It starts with '23 59', followed by a blank line, then '00 00', followed by another blank line. This pattern repeats: '23 59', blank line, '23 59', blank line, '23 59', blank line, '23 59', blank line, '23 59', blank line, '23 59', blank line, '23 59', blank line, '00 00', blank line, '00 00', blank line, and finally '00 00'. This demonstrates a single rollover from 23:59 to 00:00.