

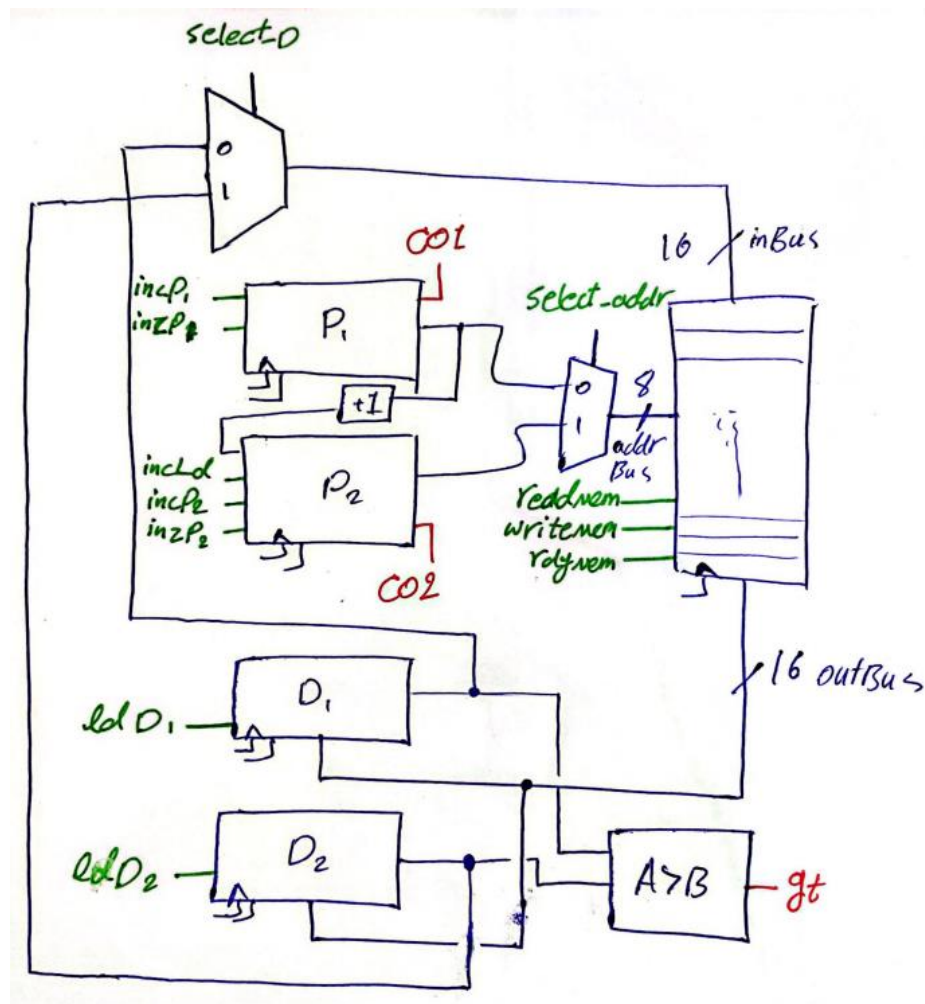


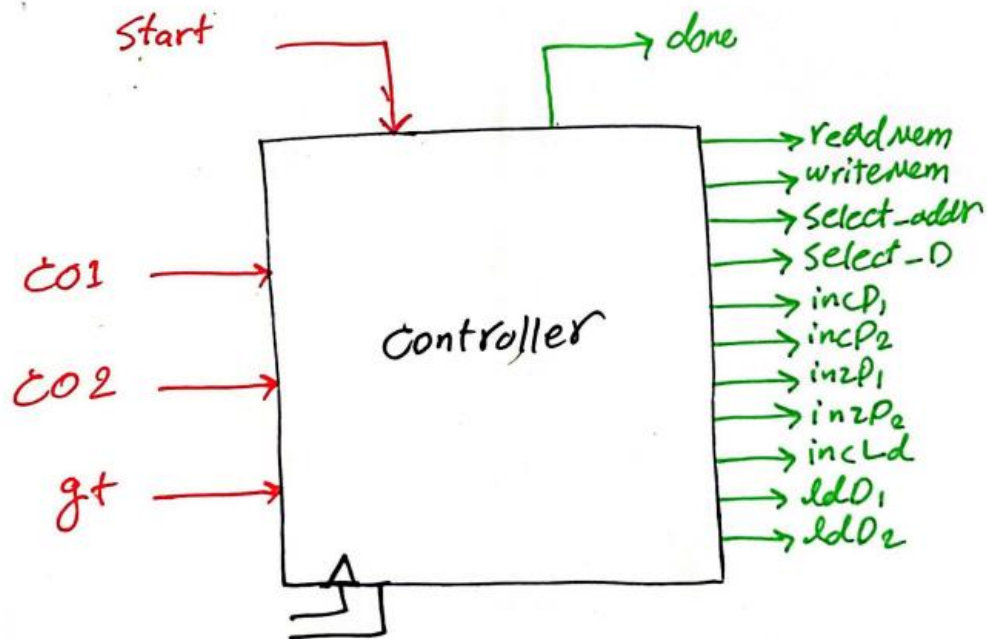
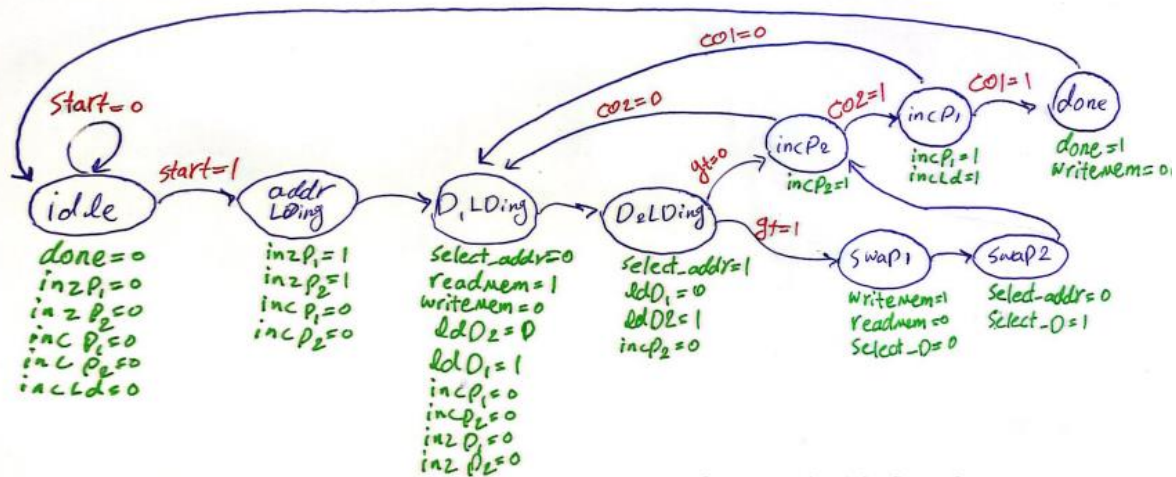
UNIVERSITY OF TEHRAN
Electrical and Computer Engineering Department
Digital Logic Design, ECE 367 / Digital Systems I, ECE 894 Spring
1402
Computer Assignment 6
RT Leve Component Design and FPGA Implementation – Week 24

Name: Amirhesam Jafari rad / 810100247

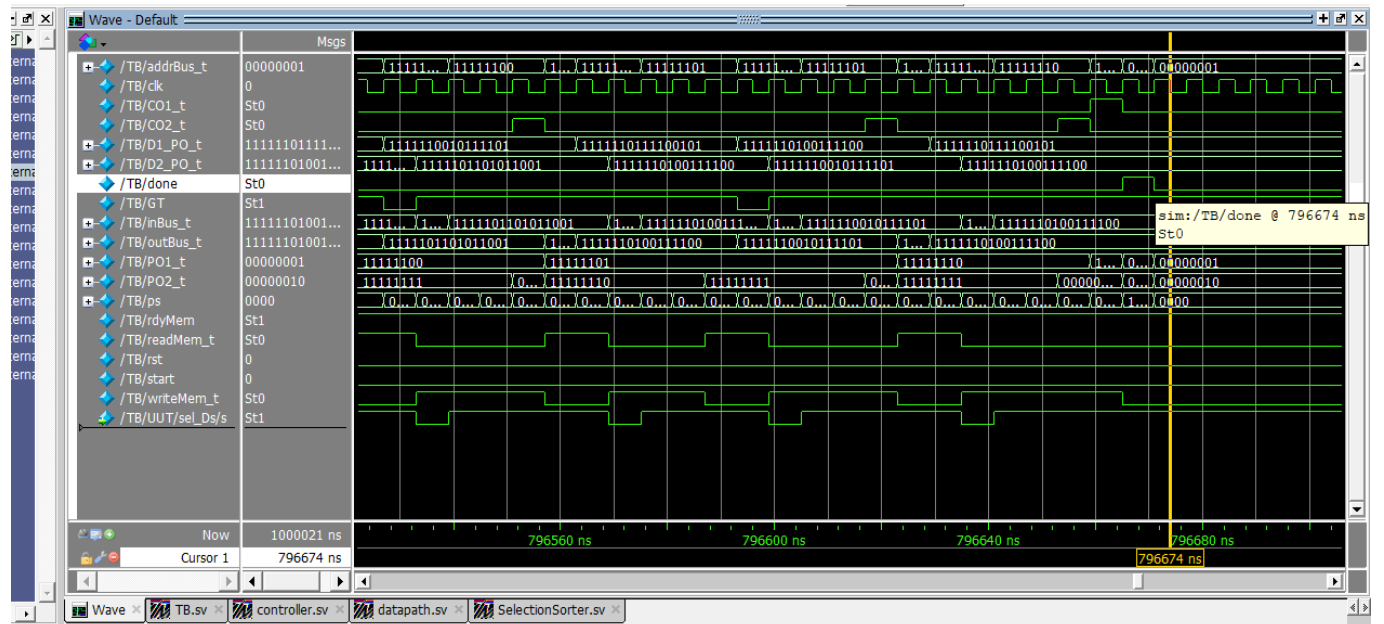
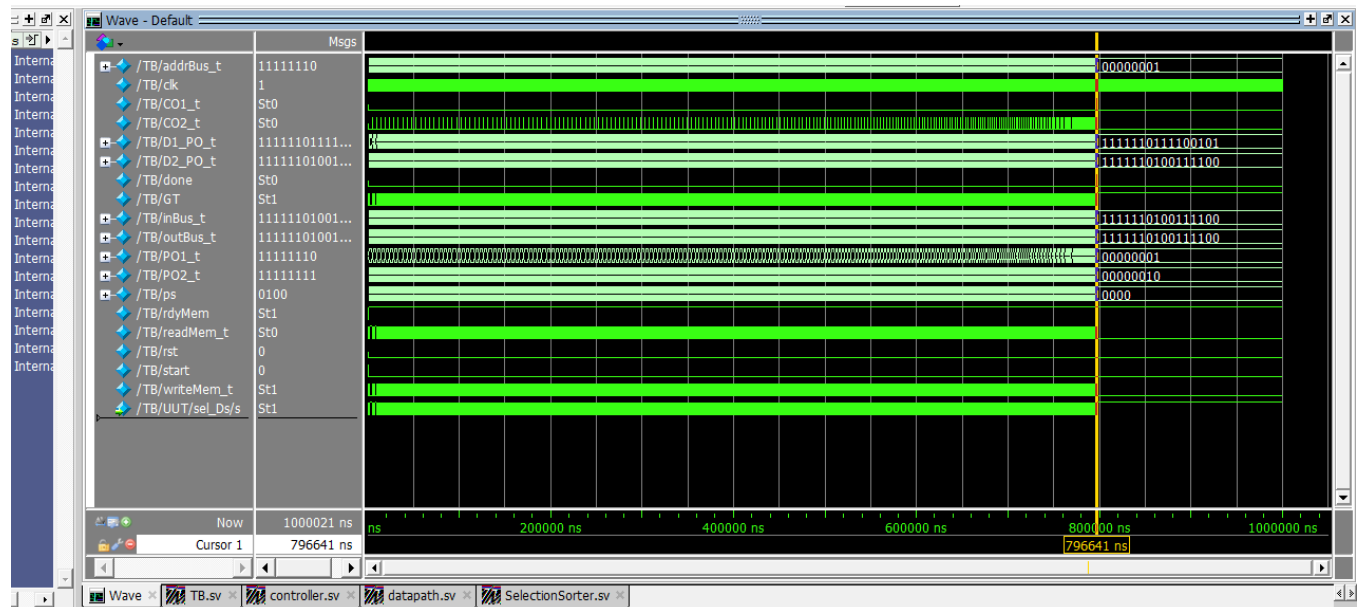
Date: 1402/3/23

a)

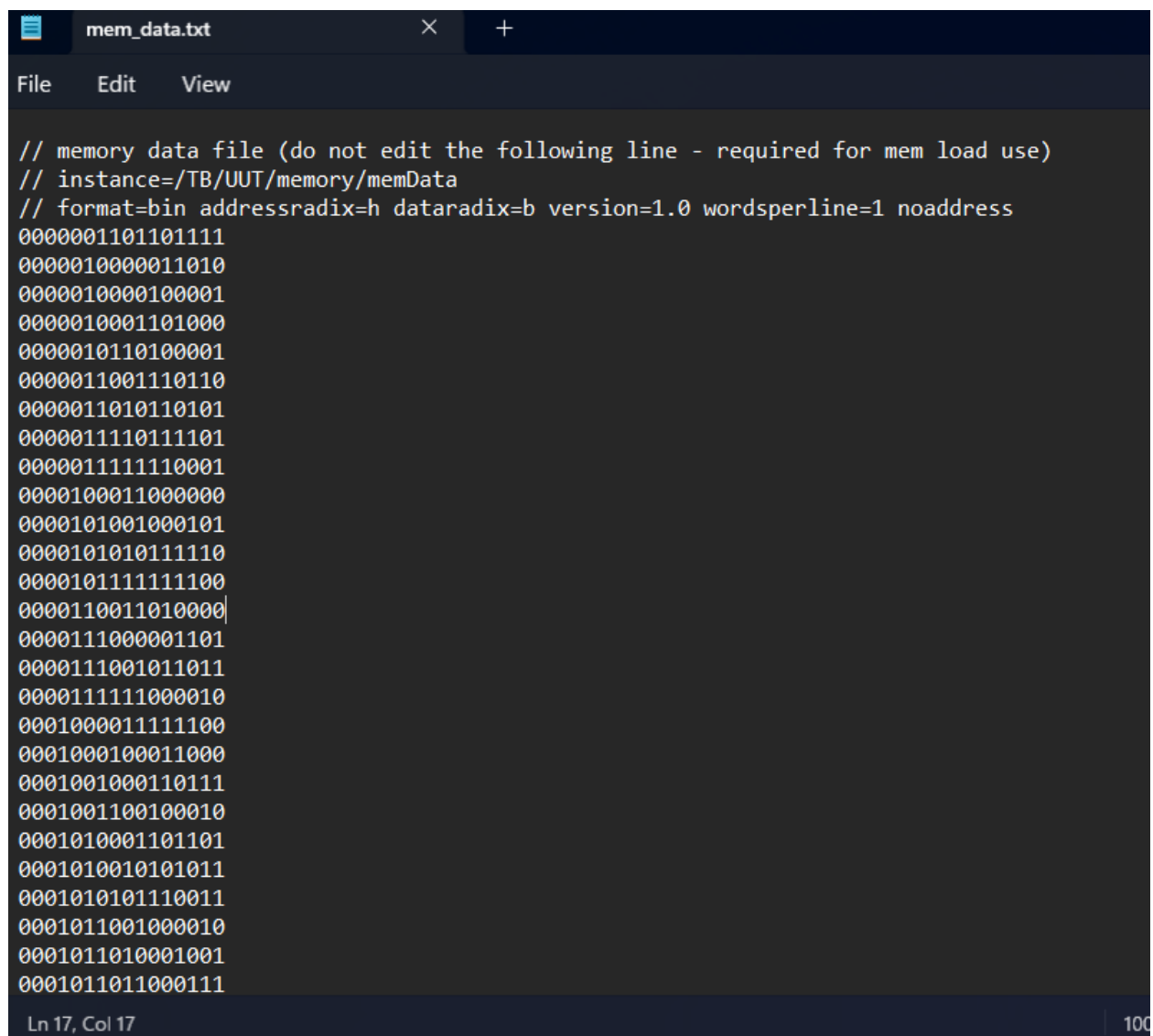




B)



Sorted Memory:



The screenshot shows a text editor window titled "mem_data.txt". The editor has a menu bar with "File", "Edit", and "View". The main text area contains a series of lines, each starting with a comment and followed by a 17-bit binary string. The binary strings are sorted in ascending order. The status bar at the bottom indicates "Ln 17, Col 17" and a page number "100".

```
// memory data file (do not edit the following line - required for mem load use)
// instance=/TB/UUT/memory/memData
// format=bin addressradix=h dataradix=b version=1.0 wordsperline=1 noaddress
0000001101101111
0000010000011010
0000010000100001
0000010001101000
0000010110100001
0000011001110110
0000011010110101
0000011110111101
0000011111110001
0000100011000000
0000101001000101
0000101010111110
0000101111111100
0000110011010000
0000111000001101
0000111001011011
0000111111000010
0001000011111100
0001000100011000
0001001000110111
0001001100100010
0001010001101101
0001010010101011
0001010101110011
0001011001000010
0001011010001001
0001011011000111
```

Ln 17, Col 17 100