

COMPUTER ORGANIZATION

TUBA TOPRAK-16144116

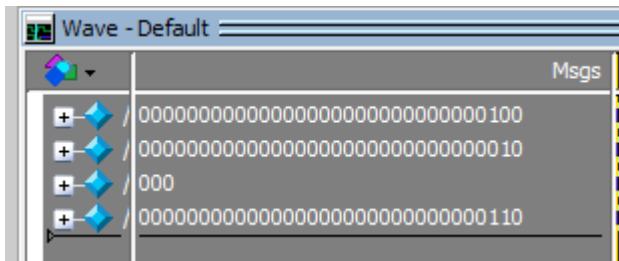
HOMEWORK 3 REPORT

PART2:

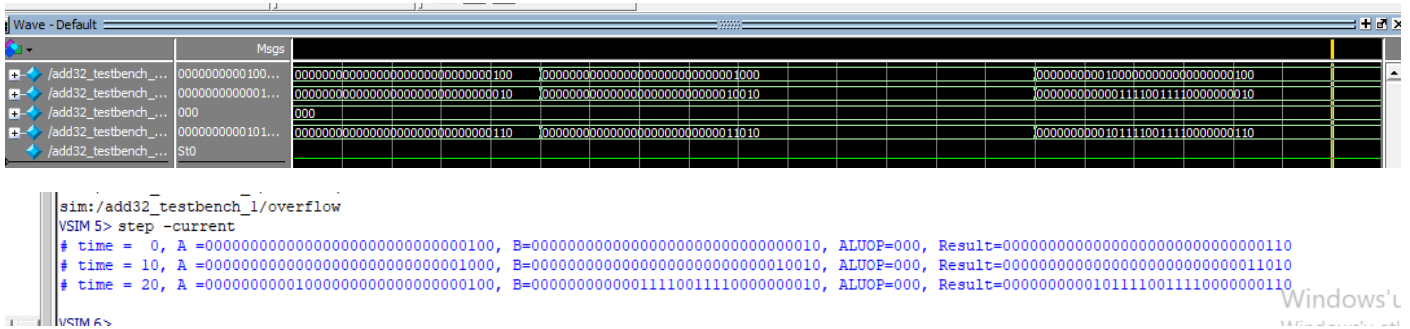
All operations works except mult. Testbench written for add,nor,xor,or,sub,and,slt

The results are visible on the monitor and the wave.

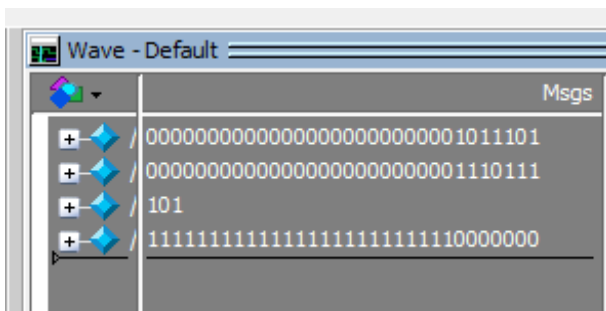
Add:



experiment with other numbers

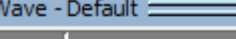


Nor:



The screenshot shows the "Wave - Default" window with a message list on the right. The list contains four entries, each preceded by a plus icon and a blue diamond icon:

- / 000000000000000000000000000000001011101
- / 000000000000000000000000000000001110111
- / 001
- / 00000000000000000000000000000000101010



Wave - Default

Msgs

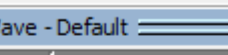
- +/ 000000000000000000000000000000001011101
- +/ 000000000000000000000000000000001101011
- +/ 111
- +/ 000000000000000000000000000000001111111

[illegible]

The screenshot shows the Wave IDE interface. The title bar reads "Wave - Default". Below it, there's a toolbar with icons for file operations and a dropdown menu. To the right of the toolbar, the word "Msgs" indicates the number of messages. The main area displays four messages, each preceded by a blue diamond icon:

- / 00 100
- / 00 10
- / 010
- / 00 10

[illegible]



Wave - Default

Msgs

- + / 000000000000000000000000001111111
- + / 000000000000000000000000001110111
- + / 110
- + / 000000000000000000000000001110111

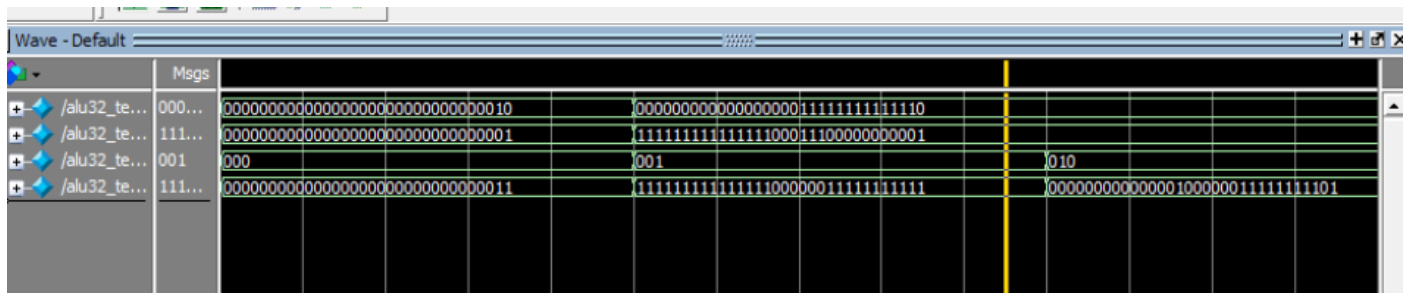
[illegible]

```

VSI8> step -current
# time = 0, A = 00000000000000000000000000000010, B=00000000000000000000000000000001, ALUOP=000, Result=00000000000000000000000000000011
# time = 10, A = 00000000000000000000000000000011, B=11111111111111111111111111111111, ALUOP=001, Result=11111111111111111111111111111111
# time = 20, A = 00000000000000000000000000000011, B=11111111111111111111111111111111, ALUOP=010, Result=00000000000000000000000000000011
# time = 30, A = 00000000000000000000000000000011, B=11111111111111111111111111111111, ALUOP=011, Result=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
# time = 40, A = 00000000000000000000000000000011, B=11111111111111111111111111111111, ALUOP=100, Result=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
# time = 50, A = 00000000000000000000000000000011, B=11111111111111111111111111111111, ALUOP=110, Result=00000000000000000000000000000000
# time = 60, A = 00000000000000000000000000000011, B=11111111111111111111111111111111, ALUOP=111, Result=11111111111111111111111111111111

```

Wawe: cont.



Part2: I tried to draw fsm.

Fsm

