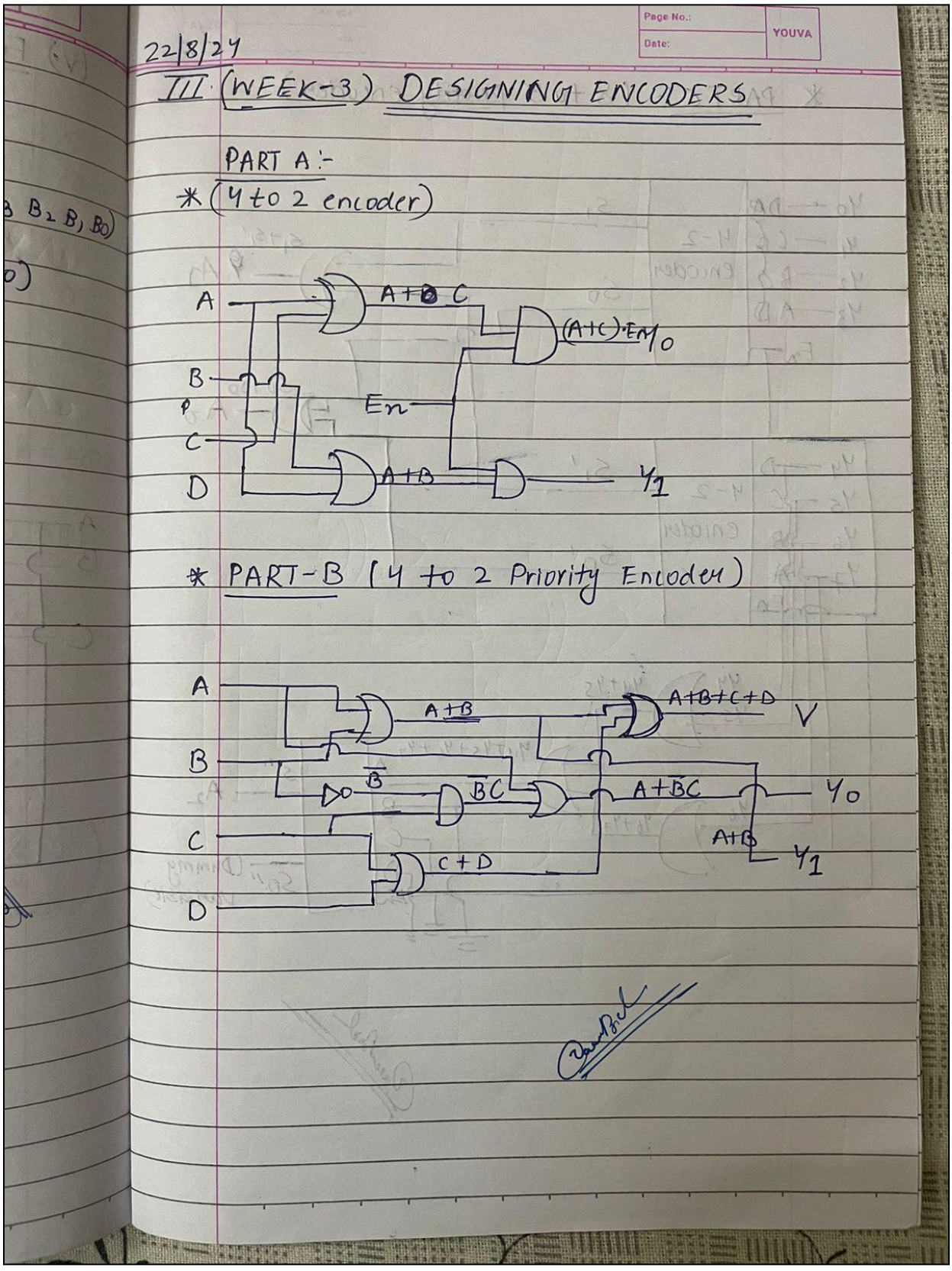
DIGITAL CIRCUITS LAB

EXP-2

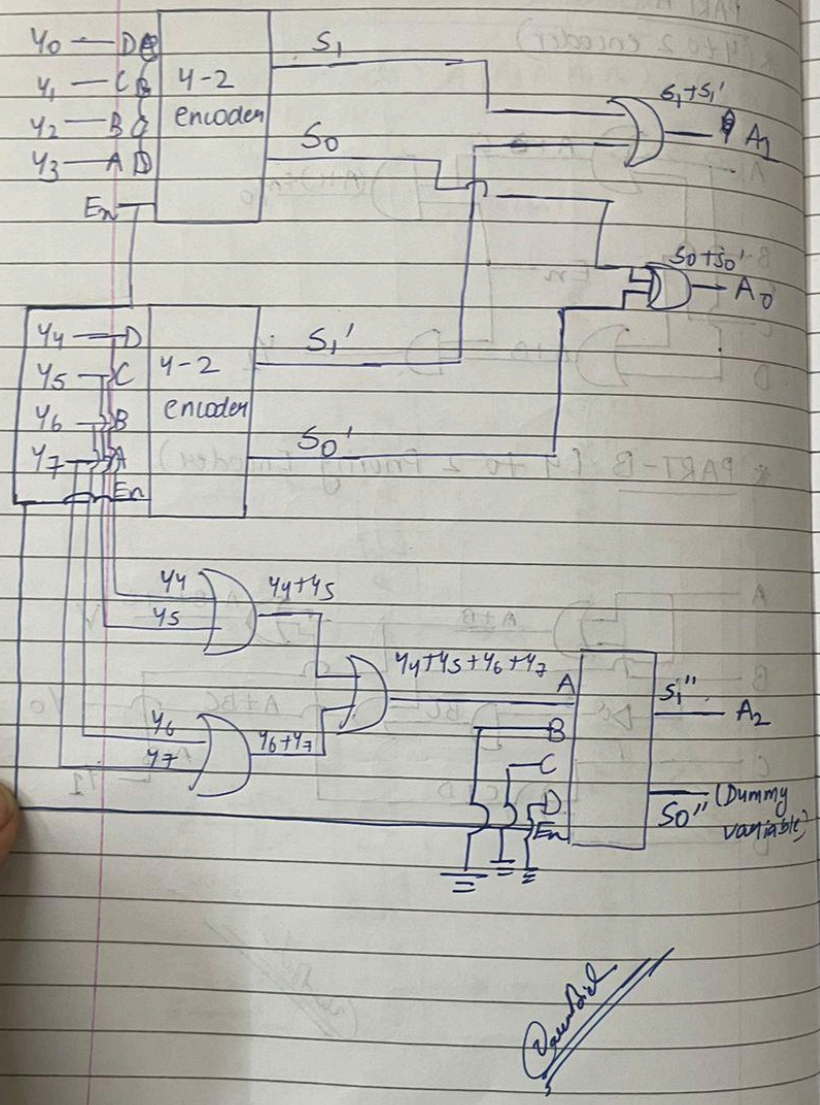
August 25,2024

~Dev Arora
23B1271

Pen-Paper Design:

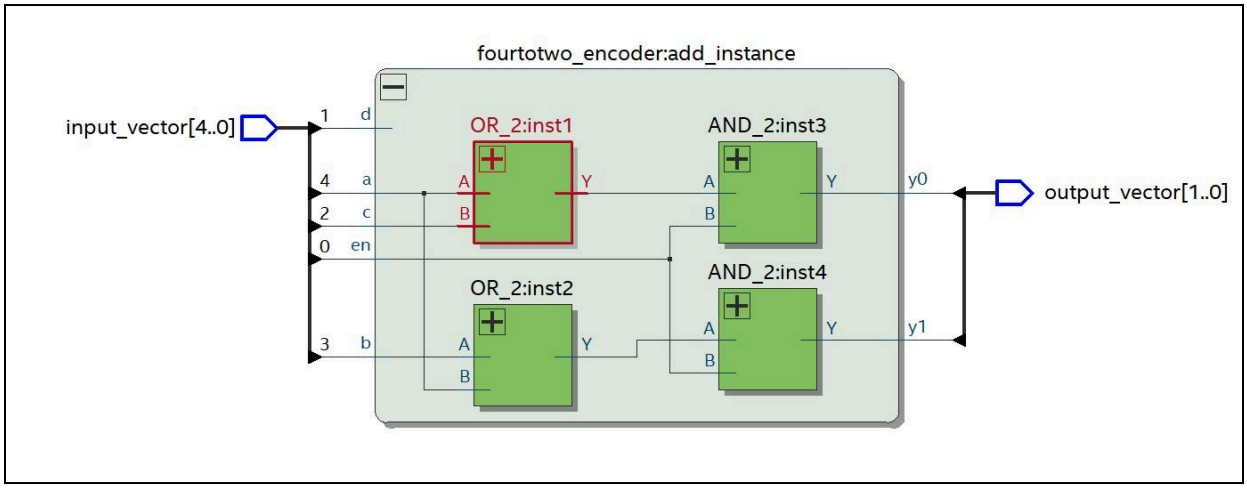


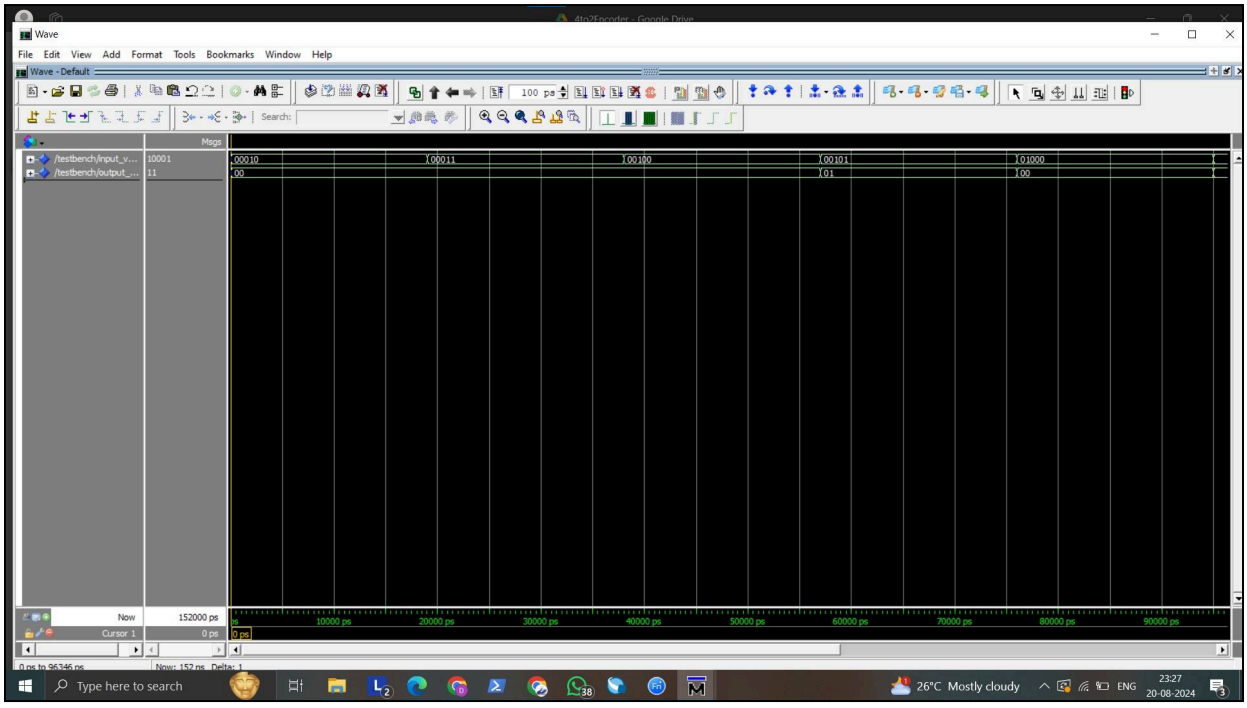
* PART C :- (8 to 3 ~~priority~~ encoder)



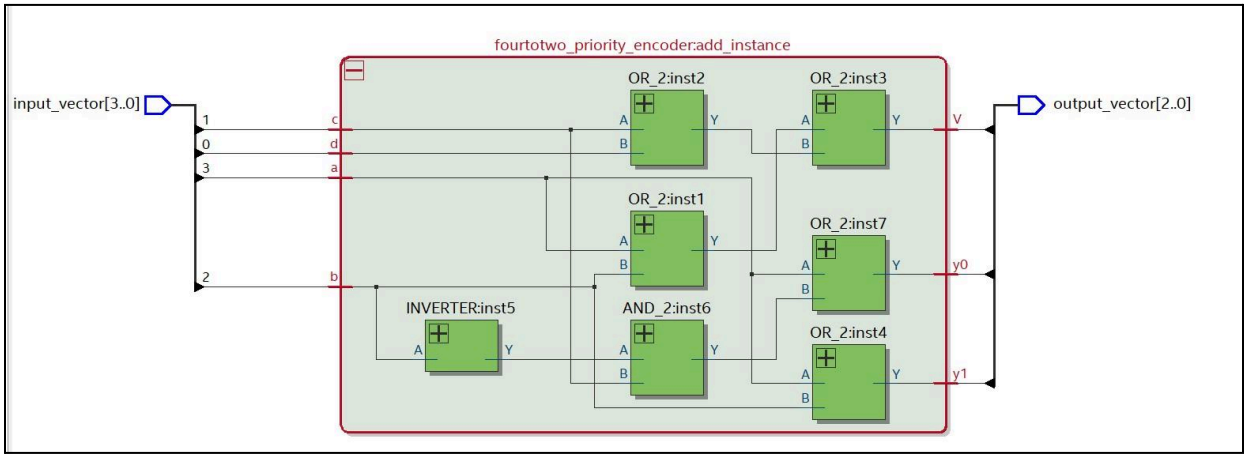
Netlists & Simulation Wave:

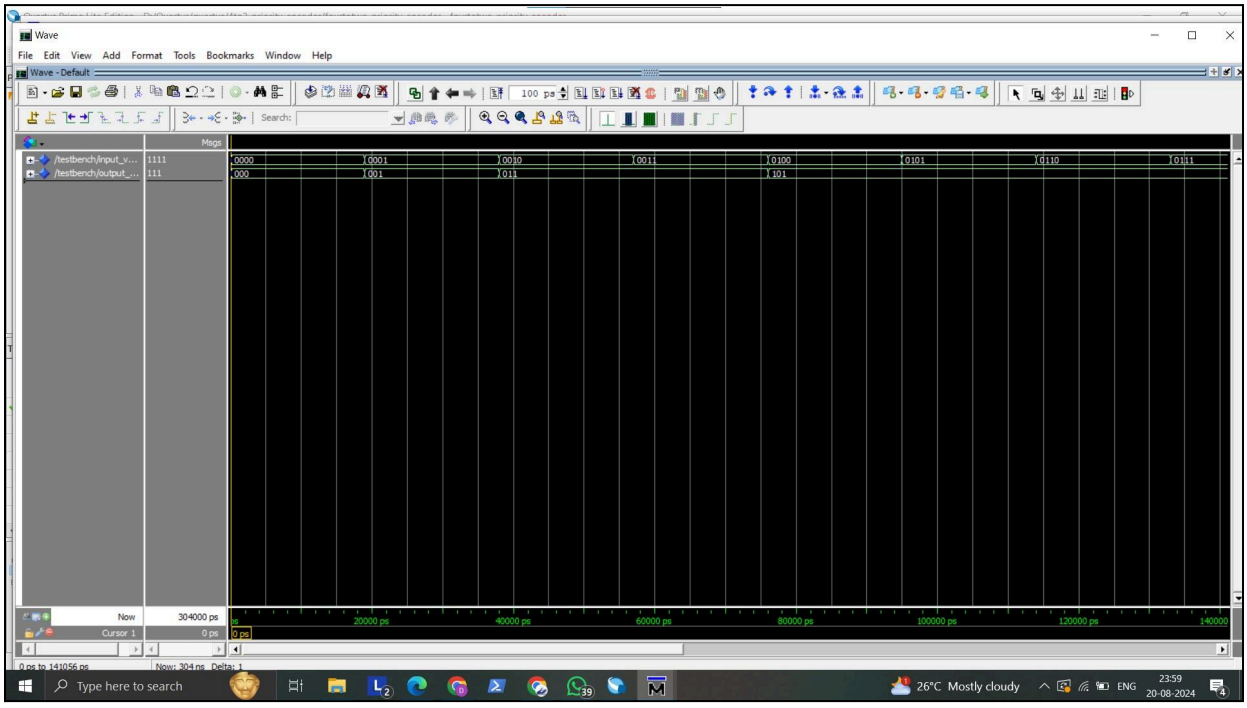
4 to 2 encoder:



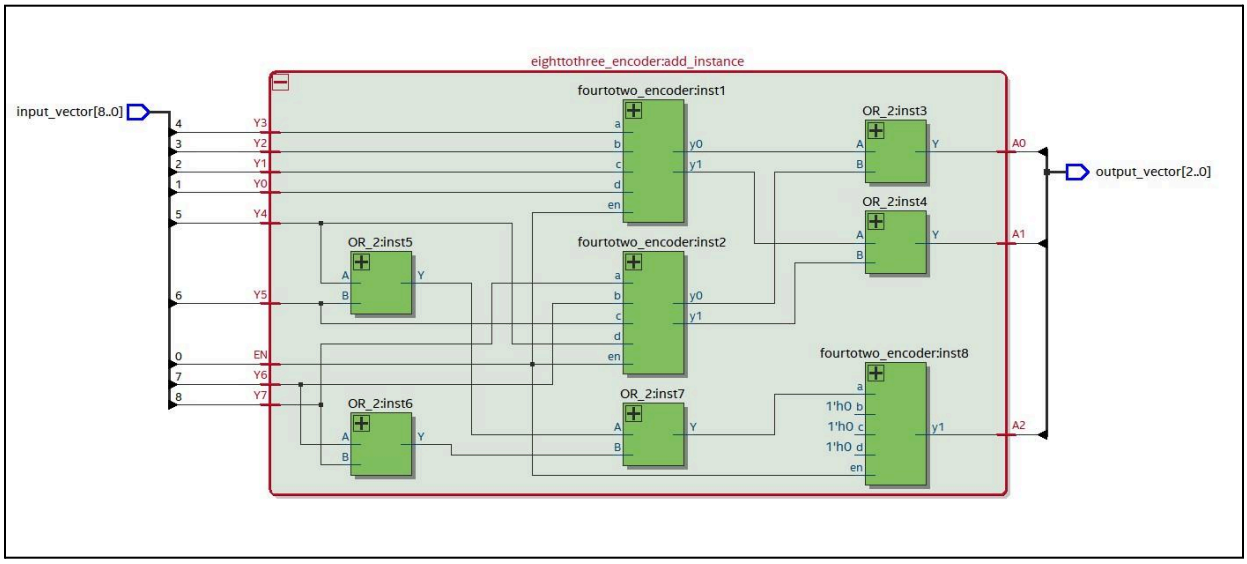


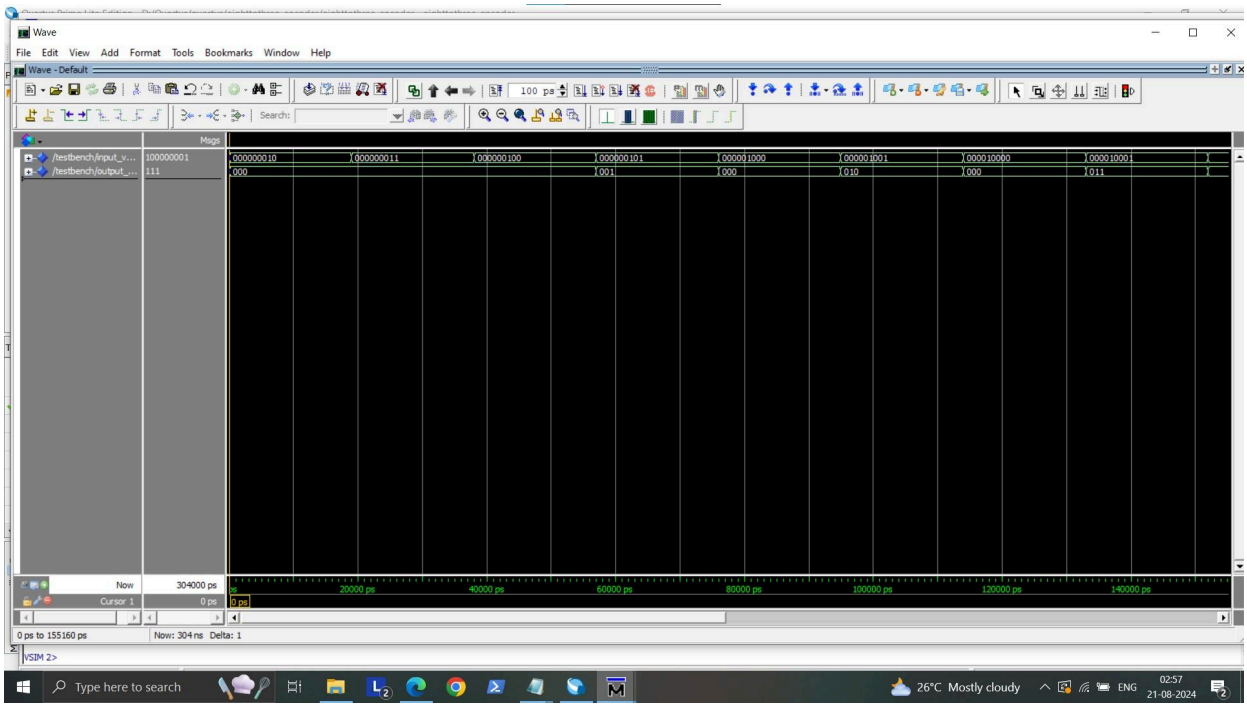
4 to 2 priority encoder:





8 to 3 encoder:


eighttothree_encoder:add_instance
input_vector[8..0]
output_vector[2..0]
fourtotwo_encoder:inst1
fourtotwo_encoder:inst2
fourtotwo_encoder:inst8
OR_2:inst3
OR_2:inst4
OR_2:inst5
OR_2:inst6
OR_2:inst7
Y3
Y2
Y1
Y0
Y4
Y5
Y6
Y7
EN
A0
A1
A2
a
b
c
d
en
y0
y1
A
B
Y
1'h0


Wave
File Edit View Add Format Tools Bookmarks Window Help
Wave - Default
/testbench/input_v...
/testbench/output_...
Now
Cursor 1
0 ps to 155160 ps
Now: 304 ns Delta: 1
VSIM 2>
Type here to search
26°C Mostly cloudy
ENG
02:57
21-08-2024