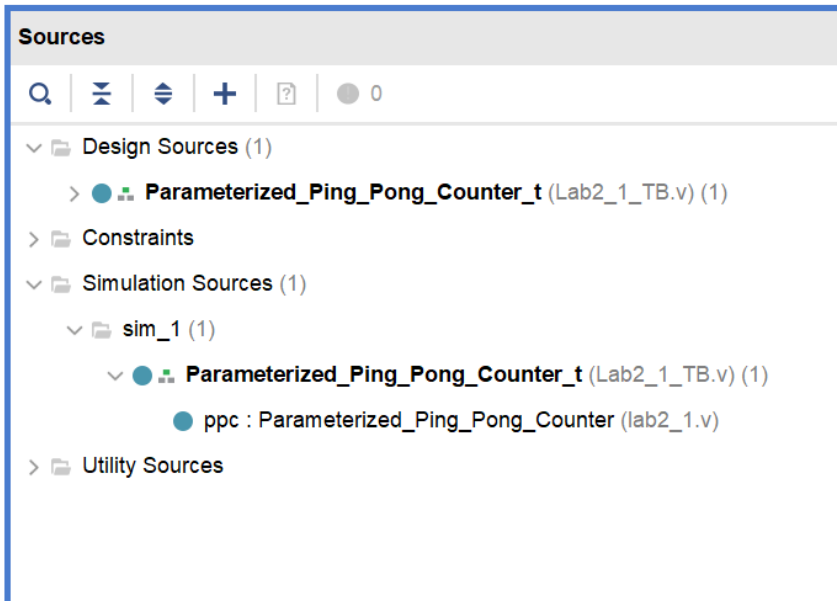
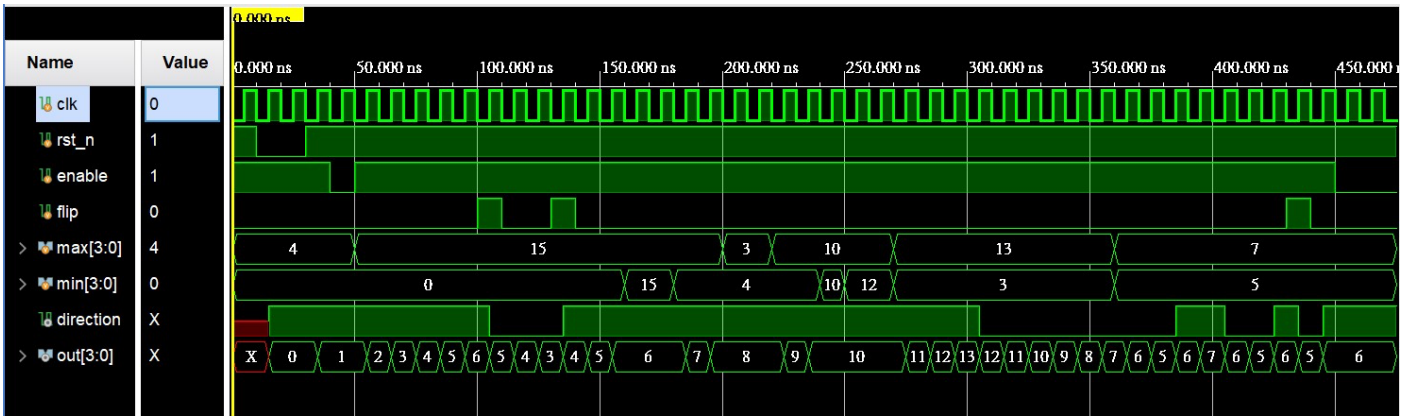
Lab 2 Simulation Guide

- **Lab2-1**
  - The image shown below is how the "Sources" should look like.

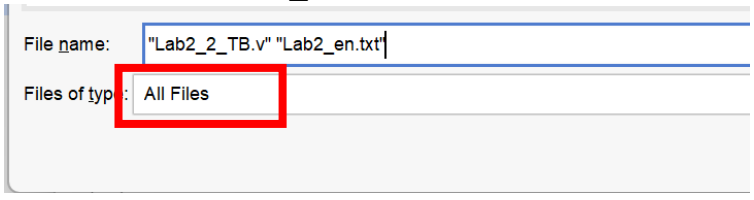


  - If you pass Lab2_1, you will see the following message in your Tcl Console.

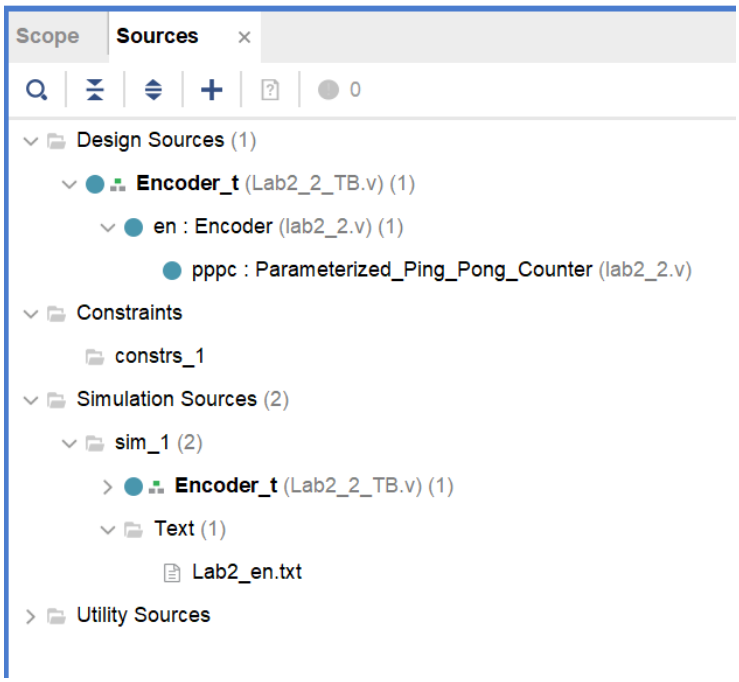
  - The correct waveform is shown as follow



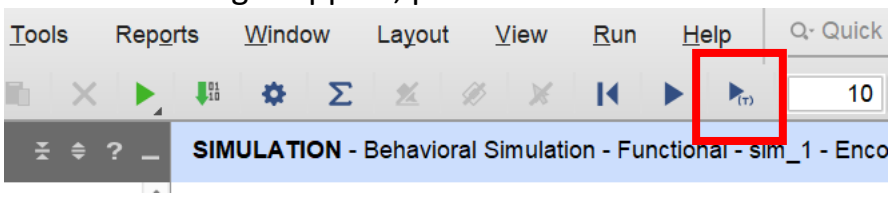
- **Lab2-2**
  - Note that the Lab2_en.txt file should be included in the simulation sources.



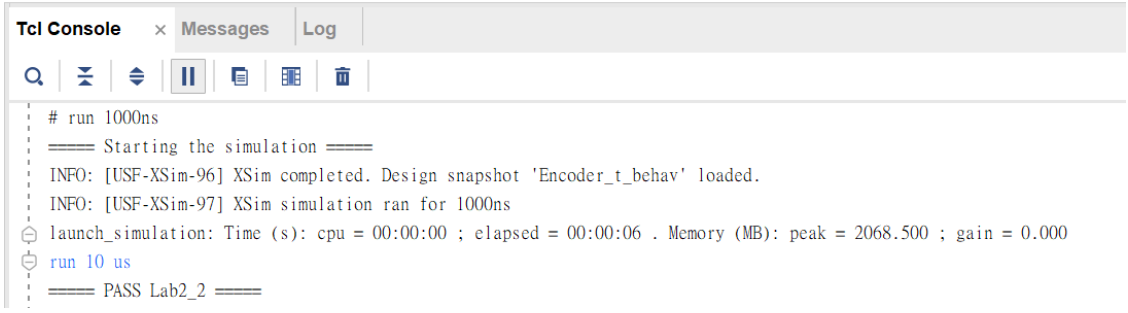
- The image shown below is how the "Sources" should look like.



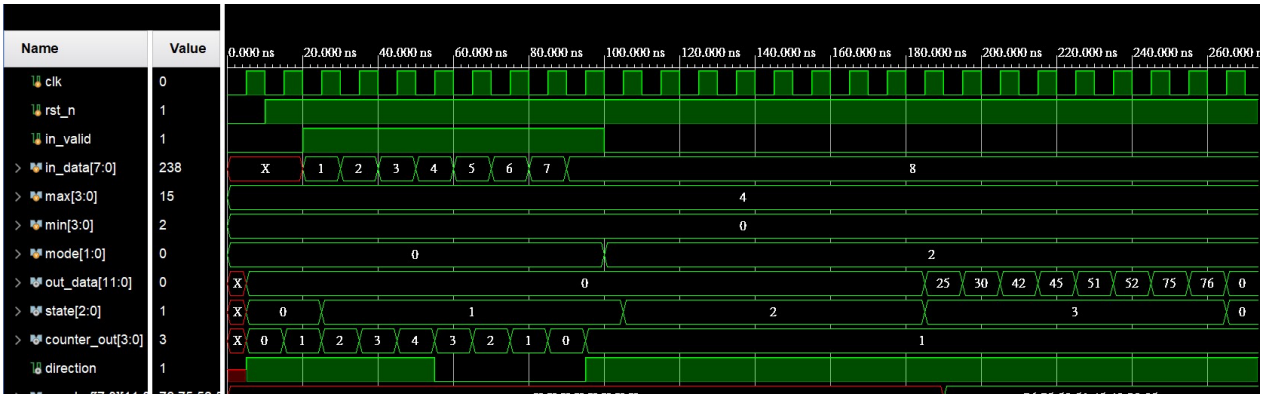
- If no fail messages appear, press the button to run for 10 more us.

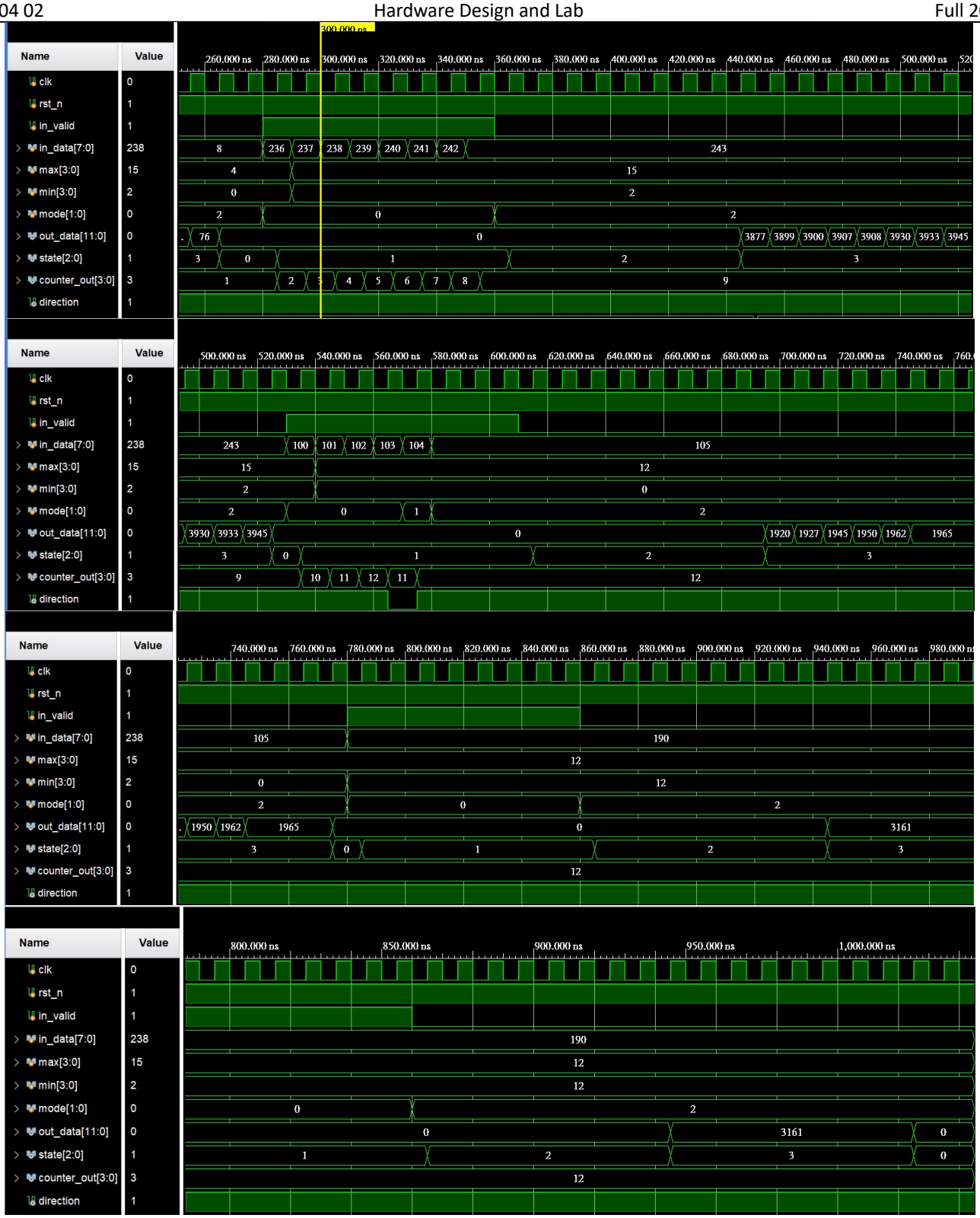


- If you pass Lab2_2, you will see the following message in your Tcl Console.



- The correct waveform is shown as follow




Name
Value
clk 0
rst_n 1
in_valid 1
in_data[7:0] 238
max[3:0] 15
min[3:0] 2
mode[1:0] 0
out_data[11:0] 0
state[2:0] 1
counter_out[3:0] 3
direction 1
260.000 ns
280.000 ns
300.000 ns
320.000 ns
340.000 ns
360.000 ns
380.000 ns
400.000 ns
420.000 ns
440.000 ns
460.000 ns
480.000 ns
500.000 ns
520.000 ns
540.000 ns
560.000 ns
580.000 ns
600.000 ns
620.000 ns
640.000 ns
660.000 ns
680.000 ns
700.000 ns
720.000 ns
740.000 ns
760.000 ns
780.000 ns
800.000 ns
820.000 ns
840.000 ns
860.000 ns
880.000 ns
900.000 ns
920.000 ns
940.000 ns
960.000 ns
980.000 ns
800.000 ns
850.000 ns
900.000 ns
950.000 ns
1,000.000 ns