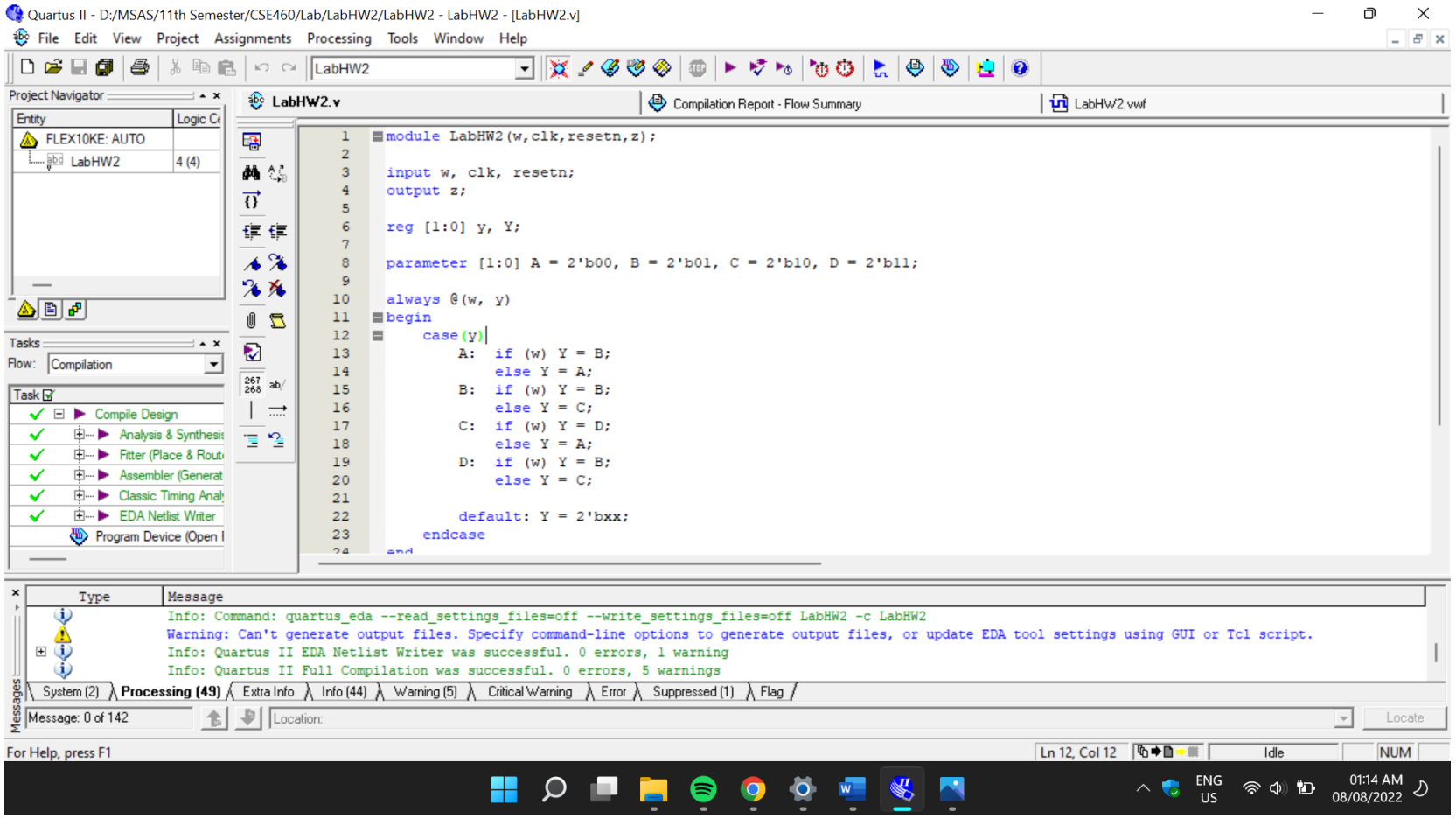
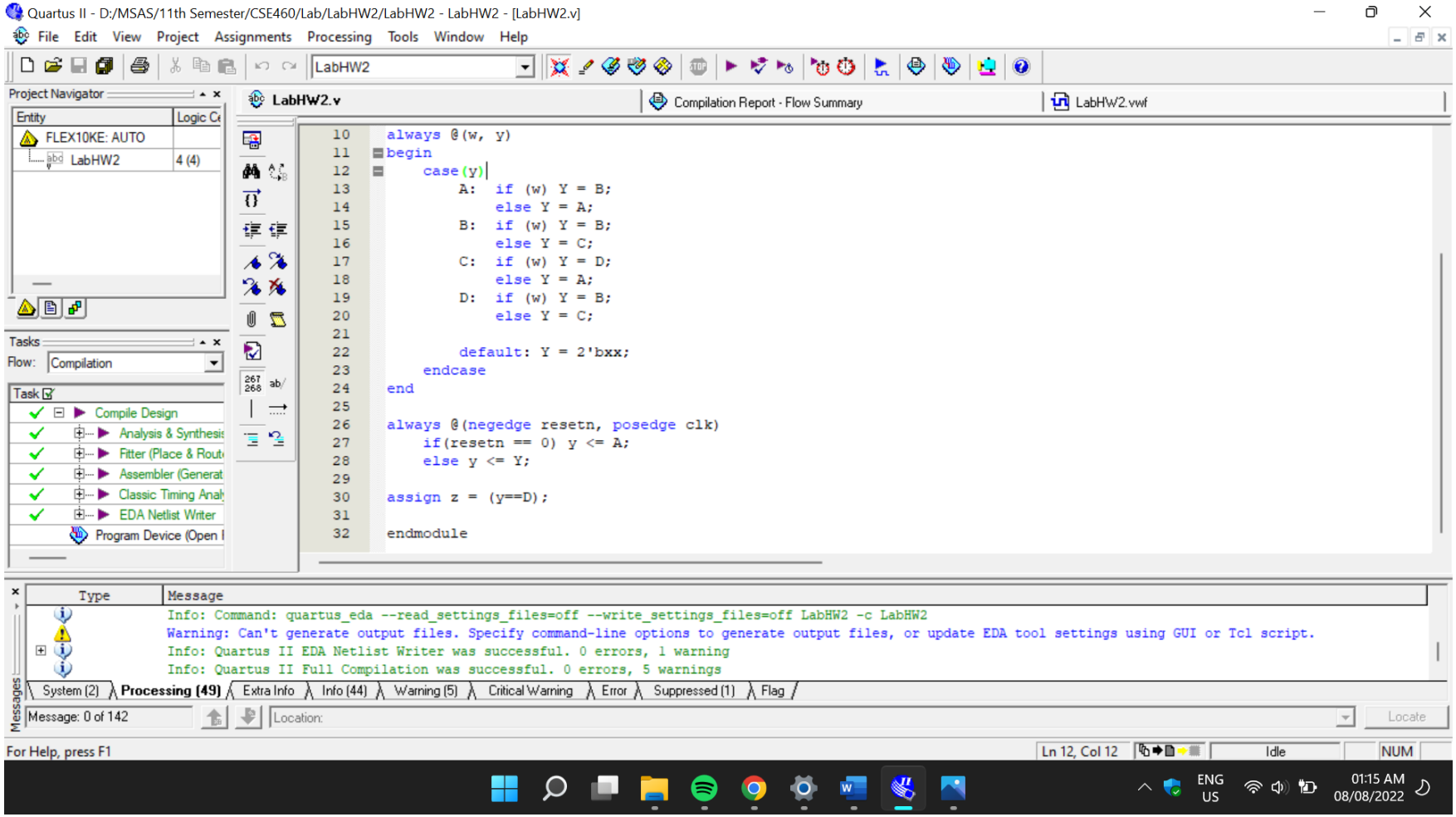
Codes:


Quartus II - D:/MSAS/11th Semester/CSE460/Lab/LabHW2/LabHW2 - LabHW2 - [LabHW2.v]
File Edit View Project Assignments Processing Tools Window Help
LabHW2
Project Navigator
Entity
FLEX10KE: AUTO
LabHW2
4 (4)
Tasks
Flow: Compilation
Task
Compile Design
Analysis & Synthesis
Fitter (Place & Rout
Assembler (Generat
Classic Timing Anal
EDA Netlist Writer
Program Device (Open
LabHW2.v
Compilation Report - Flow Summary
LabHW2.vwf
1 module LabHW2(w,clk,resetn,z);
2
3 input w, clk, resetn;
4 output z;
5
6 reg [1:0] y, Y;
7
8 parameter [1:0] A = 2'b00, B = 2'b01, C = 2'b10, D = 2'b11;
9
10 always @(w, y)
11 begin
12 case(y)
13 A: if (w) Y = B;
14 else Y = A;
15 B: if (w) Y = B;
16 else Y = C;
17 C: if (w) Y = D;
18 else Y = A;
19 D: if (w) Y = B;
20 else Y = C;
21
22 default: Y = 2'bxx;
23 endcase
Type
Message
Info: Command: quartus_eda --read_settings_files=off --write_settings_files=off LabHW2 -c LabHW2
Warning: Can't generate output files. Specify command-line options to generate output files, or update EDA tool settings using GUI or Tcl script.
Info: Quartus II EDA Netlist Writer was successful. 0 errors, 1 warning
Info: Quartus II Full Compilation was successful. 0 errors, 5 warnings
System (2) Processing (49) Extra Info Info (44) Warning (5) Critical Warning Error Suppressed (1) Flag
Message: 0 of 142
Location:
Locate
For Help, press F1
Ln 12, Col 12
Idle
NUM
ENG US
01:14 AM
08/08/2022


Quartus II - D:/MSAS/11th Semester/CSE460/Lab/LabHW2/LabHW2 - LabHW2 - [LabHW2.v]
File Edit View Project Assignments Processing Tools Window Help
LabHW2
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LabHW2
4 (4)
Tasks
Flow: Compilation
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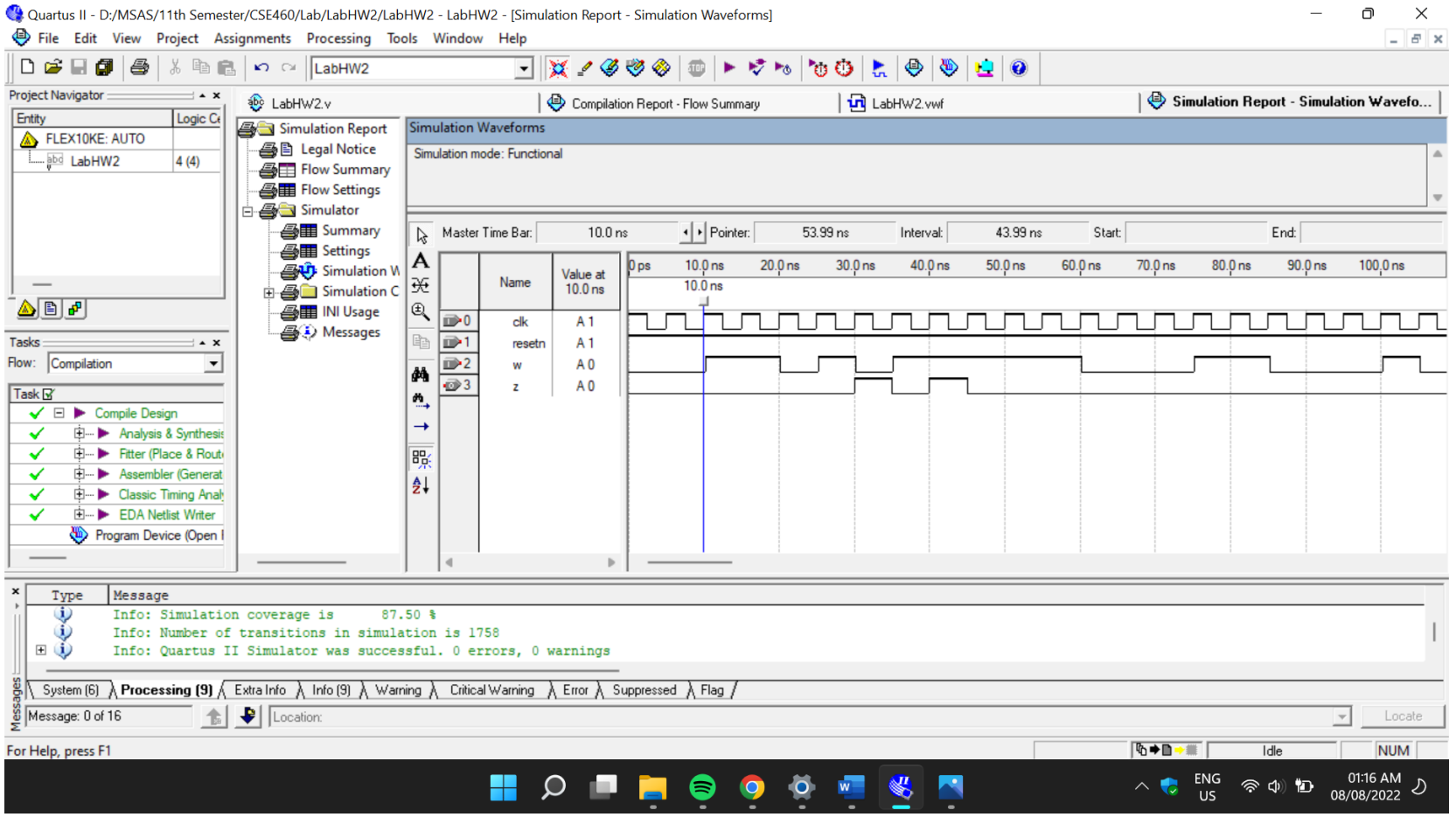
EDA Netlist Writer
Program Device (Open
LabHW2.v
Compilation Report - Flow Summary
LabHW2.vwf
10 always @(w, y)
11 begin
12 case(y)
13 A: if (w) Y = B;
14 else Y = A;
15 B: if (w) Y = B;
16 else Y = C;
17 C: if (w) Y = D;
18 else Y = A;
19 D: if (w) Y = B;
20 else Y = C;
21
22 default: Y = 2'bxx;
23 endcase
24 end
25
26 always @(negedge resetn, posedge clk)
27 if(resetn == 0) y <= A;
28 else y <= Y;
29
30 assign z = (y==D);
31
32 endmodule
Type
Message
Info: Command: quartus_eda --read_settings_files=off --write_settings_files=off LabHW2 -c LabHW2
Warning: Can't generate output files. Specify command-line options to generate output files, or update EDA tool settings using GUI or Tcl script.
Info: Quartus II EDA Netlist Writer was successful. 0 errors, 1 warning
Info: Quartus II Full Compilation was successful. 0 errors, 5 warnings
System (2) Processing (49) Extra Info Info (44) Warning (5) Critical Warning Error Suppressed (1) Flag
Message: 0 of 142
Location:
Locate
For Help, press F1
Ln 12, Col 12
Idle
NUM
ENG US
01:15 AM
08/08/2022

Simulation:


Quartus II - D:/MSAS/11th Semester/CSE460/Lab/LabHW2/LabHW2 - LabHW2 - [Simulation Report - Simulation Waveforms]
File Edit View Project Assignments Processing Tools Window Help
LabHW2
Project Navigator
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LabHW2
4 (4)
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Assembler (Generat
Classic Timing Anal
EDA Netlist Writer
Program Device (Open
LabHW2.v
Compilation Report - Flow Summary
LabHW2.vwf
Simulation Report - Simulation Wavefo...
Simulation Report
Legal Notice
Flow Summary
Flow Settings
Simulator
Summary
Settings
Simulation W
Simulation C
INI Usage
Messages
Simulation Waveforms
Simulation mode: Functional
Master Time Bar: 10.0 ns
Pointer: 53.99 ns
Interval: 43.99 ns
Start:
End:
Name
Value at 10.0 ns
0 clk A 1
1 resetn A 1
2 w A 0
3 z A 0
0 ps 10.0 ns 20.0 ns 30.0 ns 40.0 ns 50.0 ns 60.0 ns 70.0 ns 80.0 ns 90.0 ns 100.0 ns
10.0 ns
Type
Message
Info: Simulation coverage is 87.50 %
Info: Number of transitions in simulation is 1758
Info: Quartus II Simulator was successful. 0 errors, 0 warnings
System (6)
Processing (9)
Extra Info
Info (9)
Warning
Critical Warning
Error
Suppressed
Flag
Message: 0 of 16
Location:
Locate
Messages
For Help, press F1
Idle
NUM
ENG US
01:16 AM
08/08/2022