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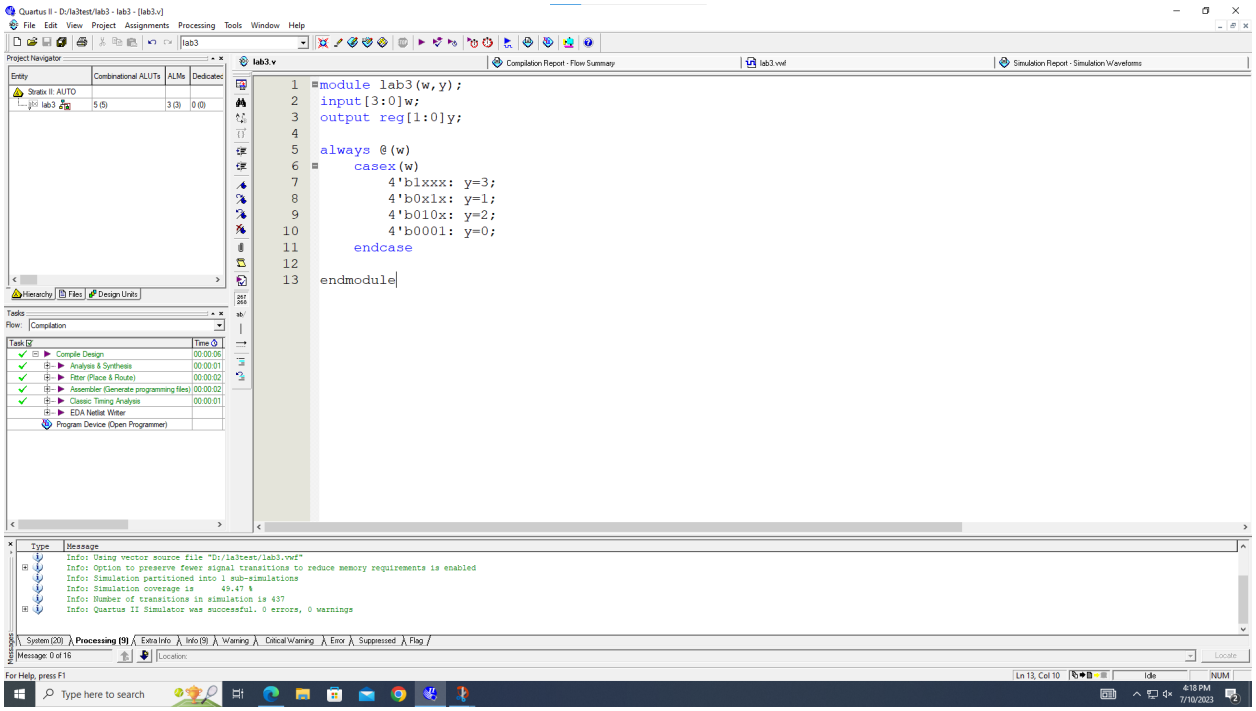
Section-06
Serial number-26
Lab-3

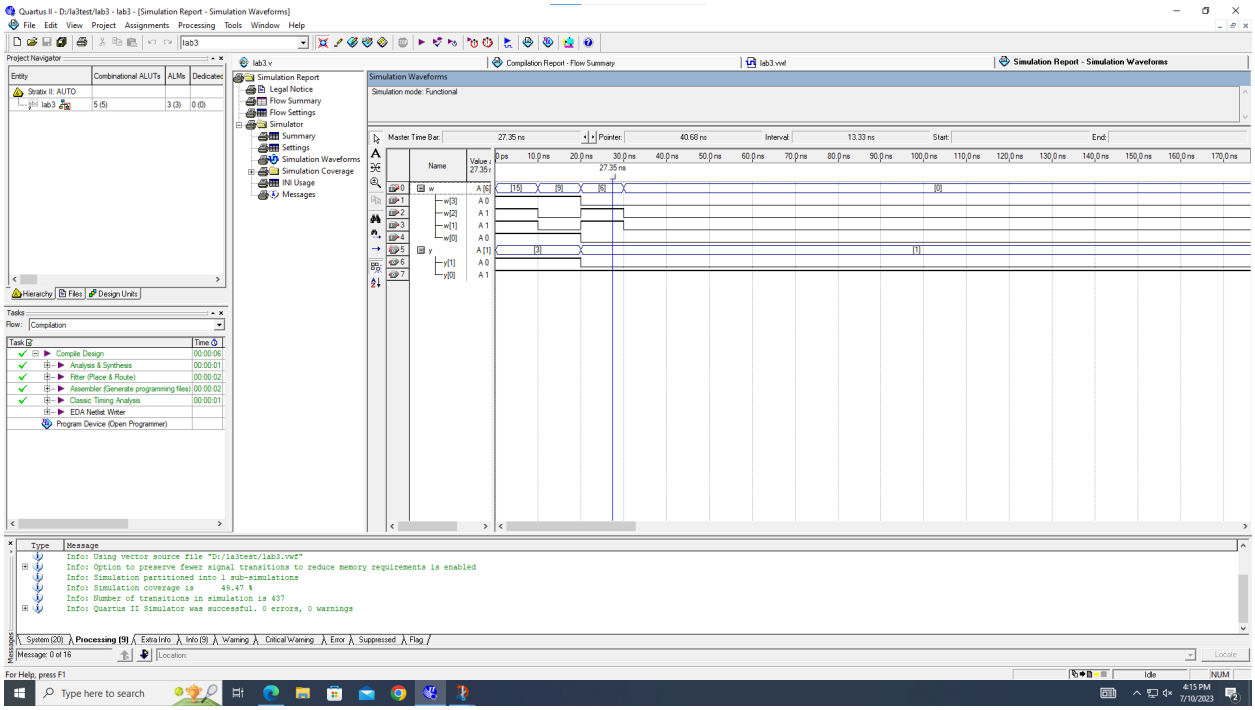
Question : 3>1>2>0

```
module lab3(w,y);
input[3:0]w;
output reg[1:0]y;

always @(w)
        casex(w)
                4'b1xxx: y=3;
                4'b0x1x: y=1;
                4'b010x: y=2;
                4'b0001: y=0;
        endcase

endmodule
```


Quartus II - D:/la3test/lab3 - lab3 - [lab3.v]
File Edit View Project Assignments Processing Tools Window Help
lab3
Project Navigator
Entity
Combinational ALUTs
ALMs
Dedicatec
Stratix II: AUTO
lab3
5 (5)
3 (3)
0 (0)
Hierarchy
Files
Design Units
Tasks
Flow: Compilation
Task
Time
Compile Design 00:00:06
Analysis & Synthesis 00:00:01
Fitter (Place & Route) 00:00:02
Assembler (Generate programming files) 00:00:02
Classic Timing Analysis 00:00:01
EDA Netlist Writer
Program Device (Open Programmer)
lab3.v
Compilation Report - Flow Summary
lab3.vwf
Simulation Report - Simulation Waveforms
1 module lab3(w,y);
2 input[3:0]w;
3 output reg[1:0]y;
4
5 always @(w)
6 casex(w)
7 4'b1xxx: y=3;
8 4'b0x1x: y=1;
9 4'b010x: y=2;
10 4'b0001: y=0;
11 endcase
12
13 endmodule
Type
Message
Info: Using vector source file "D:/la3test/lab3.vwf"
Info: Option to preserve fewer signal transitions to reduce memory requirements is enabled
Info: Simulation partitioned into 1 sub-simulations
Info: Simulation coverage is 49.47 %
Info: Number of transitions in simulation is 437
Info: Quartus II Simulator was successful. 0 errors, 0 warnings
System (20)
Processing (9)
Extra Info
Info (9)
Warning
Critical Warning
Error
Suppressed
Flag
Message: 0 of 16
Location:
Locate
For Help, press F1
Ln 13, Col 10
Idle
NUM
Type here to search
4:18 PM
7/10/2023


Quartus II - D:/la3test/lab3 - lab3 - [Simulation Report - Simulation Waveforms]
File Edit View Project Assignments Processing Tools Window Help
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Stratix II: AUTO
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lab3.v
Simulation Report
Legal Notice
Flow Summary
Flow Settings
Simulator
Summary
Settings
Simulation Waveforms
Simulation Coverage
INI Usage
Messages
Compilation Report - Flow Summary
lab3.vwf
Simulation Report - Simulation Waveforms
Simulation Waveforms
Simulation mode: Functional
Master Time Bar: 27.35 ns
Pointer: 40.68 ns
Interval: 13.33 ns
Start:
End:
Name
Value at 27.35 ns
w
w[3]
w[2]
w[1]
w[0]
y
y[1]
y[0]
27.35 ns
Type
Message
Info: Using vector source file "D:/la3test/lab3.vwf"
Info: Option to preserve fewer signal transitions to reduce memory requirements is enabled
Info: Simulation partitioned into 1 sub-simulations
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