Experiment 3

Combinational Circuits: Structural Modeling using Vivado

1.(a) Truth Table:

а	b	С	Х	У
0	0	0	1	0
0	0	1	0	0
0	1	0	0	0
0	1	1	1	0
1	0	0	0	0
1	0	1	1	0
1	1	0	0	1
1	1	1	1	1

1.(b) Maximum combinational delay:

Maximum combinational delay from c to x is 9.018. Maximum combinational delay from b to y is 8.224 1.(c) Resource Utilization:

LUTs: 1

I/Os: 5

2. code:

endmodule