

## ENGR 2323 Digital Design Lab

### Lab 5 State Machines

#### Fall 2022 Lab 5 State Transition Table

Q1 Q0 X1 X0	Next State	Q1+ Q0+	F
0 0 0 0	B		
0 0 0 1	C		
0 0 1 0	A		
0 0 1 1	A		
0 1 0 0	B		
0 1 0 1	C		
0 1 1 0	B		
0 1 1 1	A		
1 0 0 0	B		
1 0 0 1	C		
1 0 1 0	A		
1 0 1 1	C		
1 1 0 0	DC		
1 1 0 1	DC		
1 1 1 0	DC		
1 1 1 1	DC		

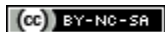
Figure 1. State Transition Table for Lab 5

The state codings for the design are: state A 00, state B 01, state C 10, and state coding 11 is unused. The output F should be asserted ( $F = 1$ ) in state C.

#### References

None

Last modified Friday, September 2, 2022



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