COEN 21 – Winter 2022

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Homework #6

1. What are some of the differences between a mealy and Moore FSM?

Mealy FSM

* Output is a result of the present state and the inputs.
* Output can be false for short time, if the inputs are not in sync with the clock.
* (asynchronous)
* faster
* Design is difficult to make
* less number of states

Moore FSM

* Outputs are result of the present state only.
* Outputs are in synchronous with the clock only.
* (synchronous)
* Requires more states
* Slower (1 clock cycle late)
* Design is very easy to make