CSC244

Preliminary Report

Project 1

FSM Vending Machine

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**Inputs & Outputs**

Inputs: clock, $0.25, $0.50, $1.00, asynchronous reset

Outputs: MacGuffin, change in quarters, change in half-dollars, 7-segment display (inserted money), 7-segment display (change due)

**Assumptions**

Coins will be inserted one at a time.

**Required States (number of flip-flops)**

**State transition diagram**

**State transition/output table**

**Required System Verilog Modules (with inputs/outputs)**