**Lab # 10**

**A Digital Lock**

CSE-308L [DIGITAL SYSTEM DESIGN LAB](https://classroom.google.com/c/NTk1NjYyOTEyNzU5)

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**Section: C**

**Submitted to:**

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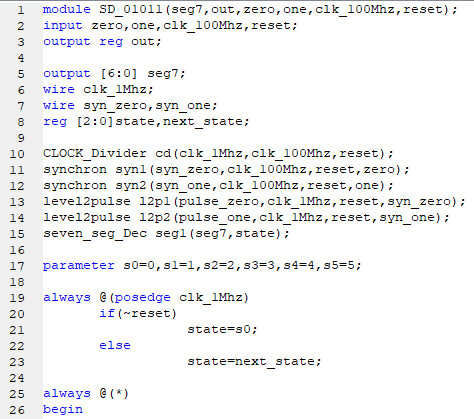
**Objective:**

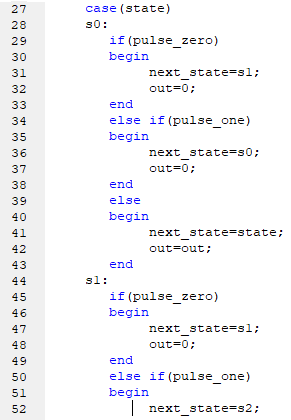
Build an electronic combination lock with reset button, two number buttons (0 and 1), and an unlock output. The combination should be “01011”

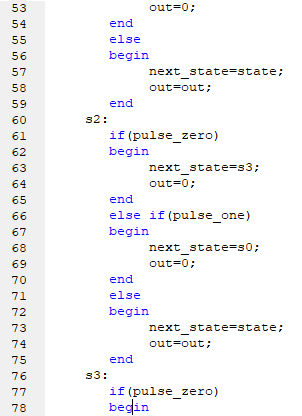
**Lab Tasks:**

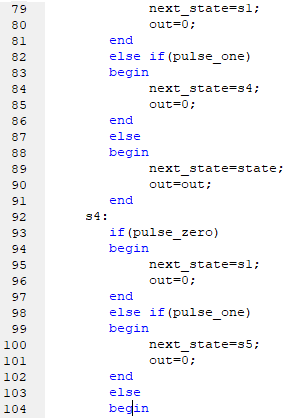
Change the functionality of the lock such that it unlocks on the sequence of 11011

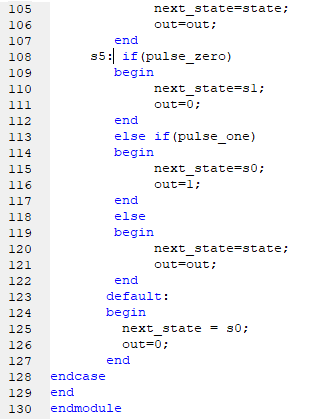
**Code**

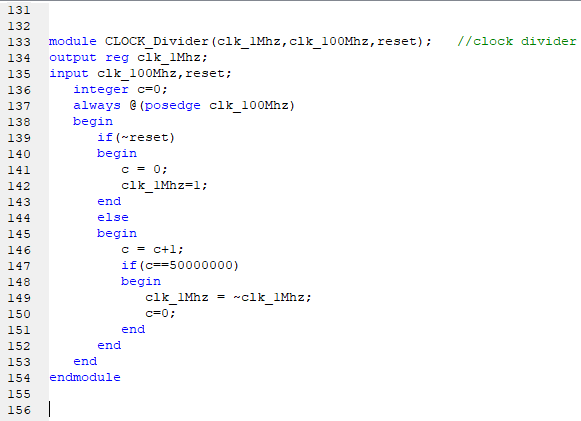


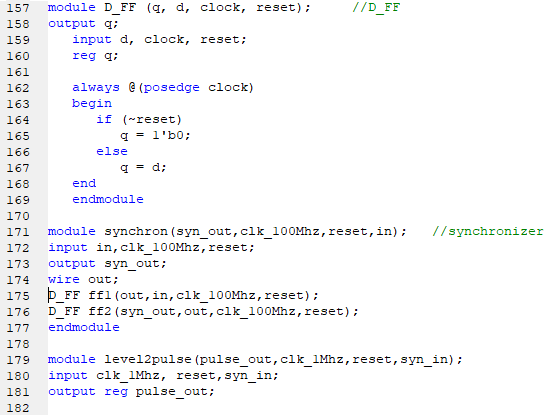


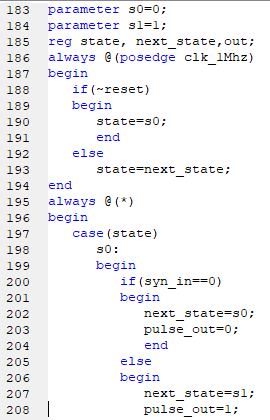


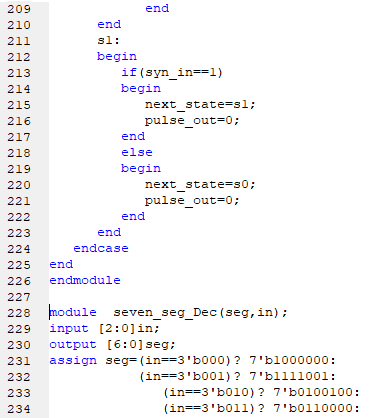


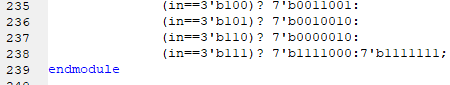




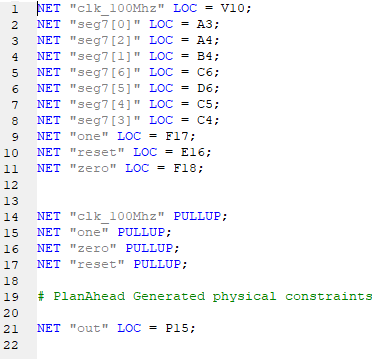








**User Constraint File(ucf)**



**Output:**

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**Schematic Diagram:**

