

Experiment #7
Programmable Electronic Combination Lock

ECE 367
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Schematic, Program Code, and Logic Diagram attached to the end of report.

User Manual:

On Initial Start, User must program the lock. To program the lock, push **D** and enter the secret code: **1 2 3 5**. The bottom display will show an **E** if the secret code was correct. Proceed to enter a 4-digit PIN. If the secret code was incorrect, the top status display will revert to **L**.

To open the lock, enter your 4-digit PIN and press **A**. The status display will change to **O**.

To lock, press **B**.

To clear the input and try again, press **C**.

You may reprogram the lock at anytime by using the above instructions from initial setup.

Conclusion:

This lab was fairly simple. The program works as specified, and the circuit seems to be free of crossing wires.