# Memorandum

**To:** Virgil Bistriceanu

**From**: Mehal Gosalia

**CC**: Li Zhang

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This project is about implementing a FSM machine generator and developing a security simulation. I implemented a security device code using python3. I created two files to determine whether the code is locked or unlocked. In the first file I included an empty array to store my codes and a security code which includes the last five digits of my student ID i.e. 84633. The second file includes part 2 of the security device simulation which also includes the part for unit testing. For the unit test part I have inputted an array with numbers from 0 to 9. I created a main() function which includes a while loop in helping to know the number of iterations and the time taken.

I used Python3 for all my codes in the files and also used Github for the first time. Learning about FSM helped me a lot to know about how to implement GitHub and a security simulation device. I have attached a raw design which I used to understand logic behind my code. It is attached in my README file in my repository file.