

# EE312: Assignment I

Embedded Systems

September 17, 2020

Report the contents of the Flag Registers and Calculate T-States for the execution of each code.

## 1 Questions

1. Two Numbers (56 and 70) are Stored in Two Prespecified Memory Locations. Swap Them
2. Load two 8-bit numbers (56 + 70) from Prespecified Memory Locations and Add them. Store the Result to a Prespecified Memory Location.
3. Load two 8-bit numbers (156 + 170) from Prespecified Memory Locations and Add them. Store the Result to a Prespecified Memory Location.
4. Subtract two 8-bit numbers (70 - 56) from Prespecified Memory Locations and Add them. Store the Result to a Prespecified Memory Location.
5. Subtract two 8-bit numbers (56 - 70) from Prespecified Memory Locations and Add them. Store the Result to a Prespecified Memory Location.