Objective

- Get a handle for manipulating data using the SDK-85 (Student Development Kit)
- Use Appendix F (8085 Instruction Set), specifically the Arithmetic Group, to perform operations on the registers and memory locations of the SDK-85.

Theory

- The SDK-85 (Student Development Kit) is a single board microcomputer system kit using the 8085 processor. It is made by Intel and is now used to teach students about the concepts of microprocessors. Contains the following
 - o Microprocessor
 - Memory Element This describes both ROM (Read Only Memory) and RAM (Random Access Memory)
 - ROM (Read Only Memory) Contains system boot up instructions
 - RAM (Random Access Memory) Has Read/Write capabilities
 - o I/O Unit Handles input from user and provides output
- Microprocessors are computer processors that incorporate the functions of a central processing unit on a single integrated circuit (IC) or at most a few integrated circuits. They contain the following:
 - Combinational logic Unit are logic circuits implemented by Boolean (logic gates) circuits, where the output is a pure function of the present input only. Think Half-Adders, Full-Adders, Encoders, and Decoders.
 - Sequential logic Unit this is a type of logic circuit whose output depends on previous inputs as well as on the present inputs.
 - Contains Memory
 - Contains a clock

This lab focuses on **Appendix F** (the 8085 Instruction Set), specifically the incorporation of Up and Down Counters. This is the set of assembly instructions that performs preset programs that's stored in ROM