Final Condensed FR Doc

FR1  The system should provide a brief header to introduce the basics of the system to the    user.

FR2    The user must be able to input BasicML instructions which consist of 4 digits preceded by either a + or - symbol.

FR3    The system must implement a memory space with 100 locations capable of holding 4 digit integers.

FR4    The system must transition from programming mode to compilation and execution with input of a specific value.

FR5    The system must distinguish between word instruction and operand (memory location).

FR6    The system must write any word from memory to the screen.

FR7    The system must load a word from memory into the accumulator.

FR8    The system must store a word from accumulator into memory.

FR9    The system must add a word from accumulator and a word in memory saving result in accumulator.

FR10   The system must branch to a new memory location depending on the value in the accumulator register.

FR11   The user must be able to use a keyboard to input data into and operate the system.

FR12   The user should be able to perform simple math operations on the value in the accumulator with the value in a specific memory location.

FR13   The system should output all the values in memory once the instructions are read.

FR14   The system should be able to prompt the user for an integer to read into memory.

FR15   The system must output the state of the Accumulator after execution is complete.