SRS Logan

Functional Requirements:

1. Read a word (signed four digit decimal) from a document line by line.
2. Write a word from location to a screen
3. Loads memory to accumulator
4. Store a word from accumulator to specific memory
5. Add a word from a specific location in memory to the word in the accumulator
6. Subtract a word from a specific location in memory from the word in the accumulator
7. Divide the word in the accumulator by a word from a specific location in memory
8. Multiply a word from a specific location in memory to the word in the accumulator
9. Branch to a specific location in memory
10. Branch to a specific location in memory if the accumulator is negative
11. Branch to a specific location in memory if the accumulator is zero
12. Able to stop the program.
13. The system will accept input .txt documents
14. The system will print the memory.
15. System will throw an error for incorrect input files, values or other errors

Non Functional Requirements:

1. System should execute the correct function 100% of the time
2. The function should always output if applicable the desired outcome
3. The system should always throw an error if the program does not execute correctly.