Alexandria University,

Faculty of Engineering,

Computer and Systems Engineering Dept.

CS222: System programming

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Lab (1) Report

Name:

Abdel-Fatah Mohamed Abdel-Fatah. (24)

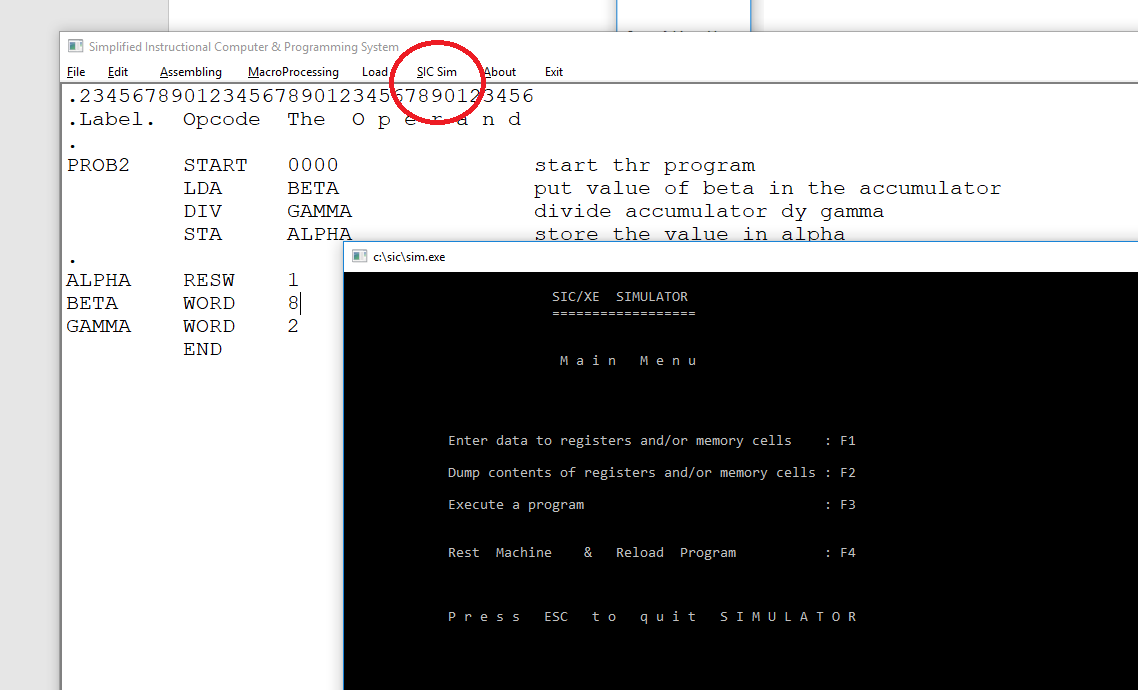
Content:

1. Simulator.
2. PROGRAMS.

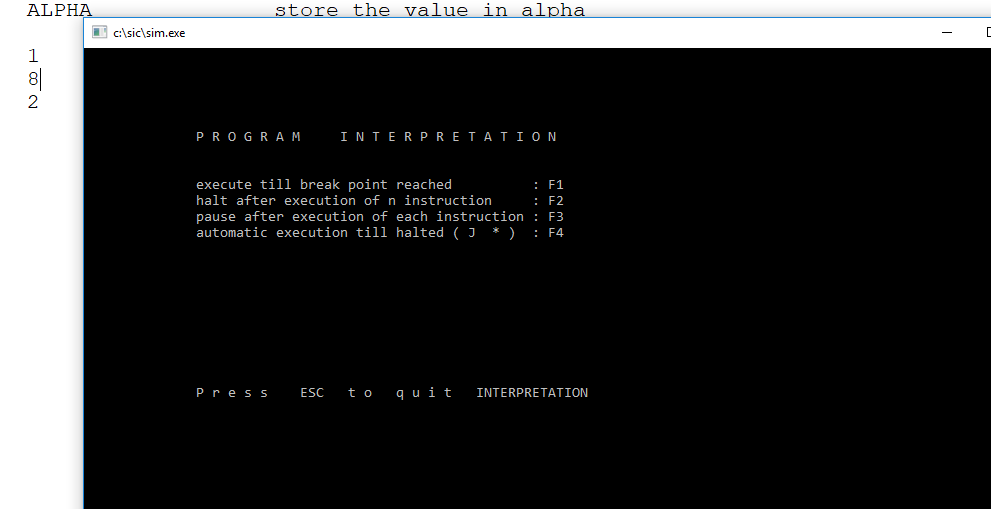
1. Set ALPHA equal to the integer portion of BETA / GAMMA.
2. Set ALPHA equal to 4 \* BETA + 3 \* GAMMA
3. Clear a 100-byte string to all blanks
4. SET elements of a 100-word array to 0
5. Read a string from device F3, calculate its length and store it in register A
6. Read a two-digit number from device F3, convert this string to a number and store the number in register A

\*\*\*Simulator:

(before all examples).

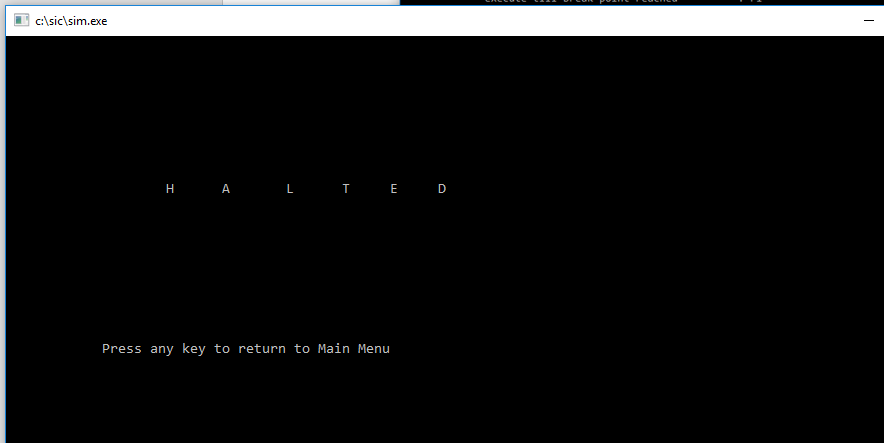


* 1. Execute a program (F3).

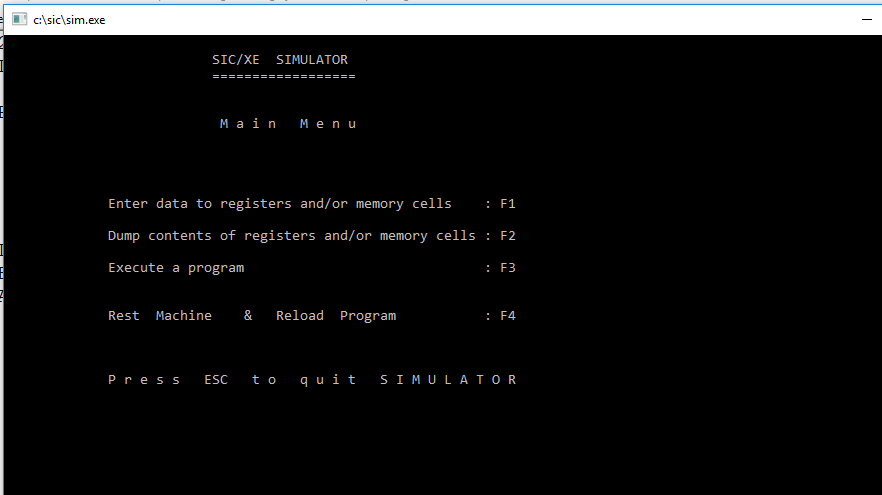


b. Automatic execution till halted (F4):

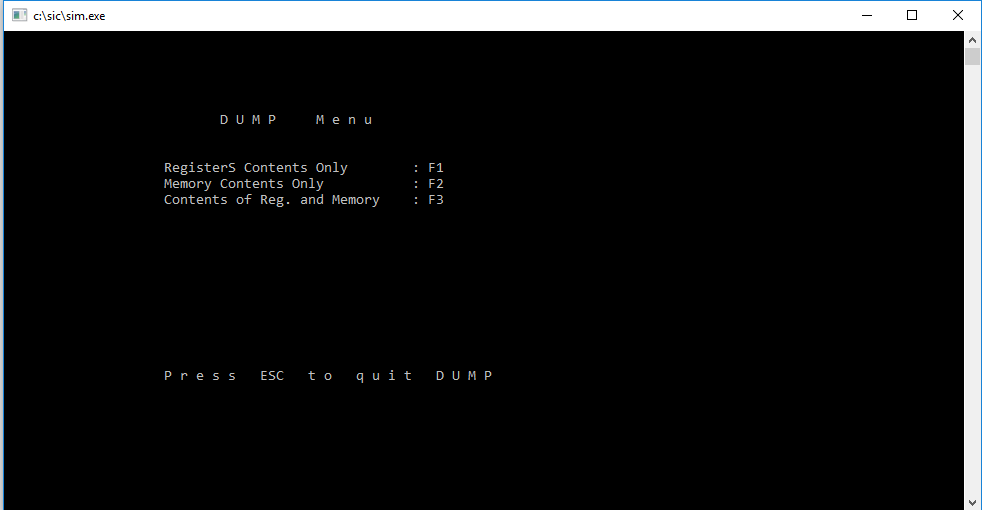
And press any button to execute instruction till the end.



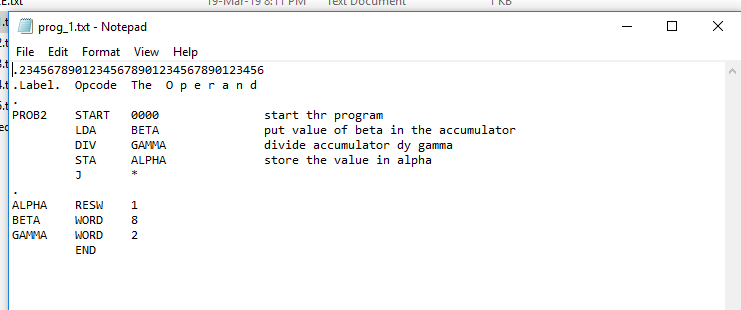
C. Dump contents of registers and/or memory cells (F2):



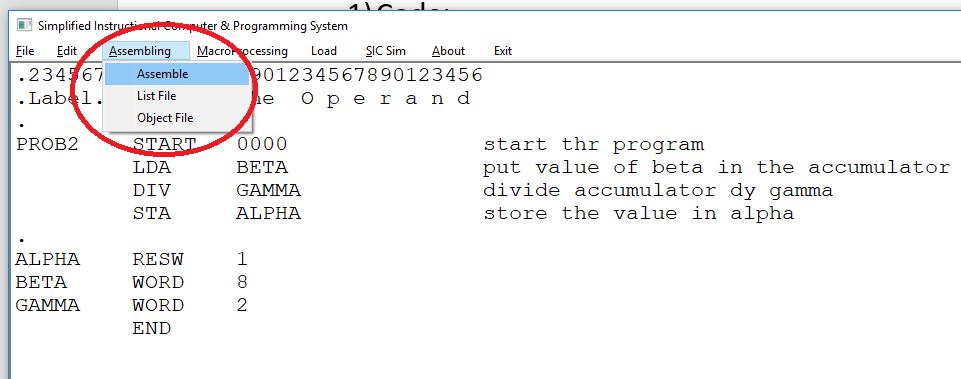
D. Contents of Reg. and Memory (F3):

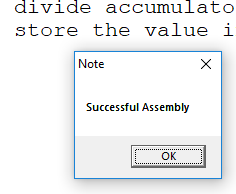


1. Set ALPHA equal to the integer portion of BETA / GAMMA:
2. Code:



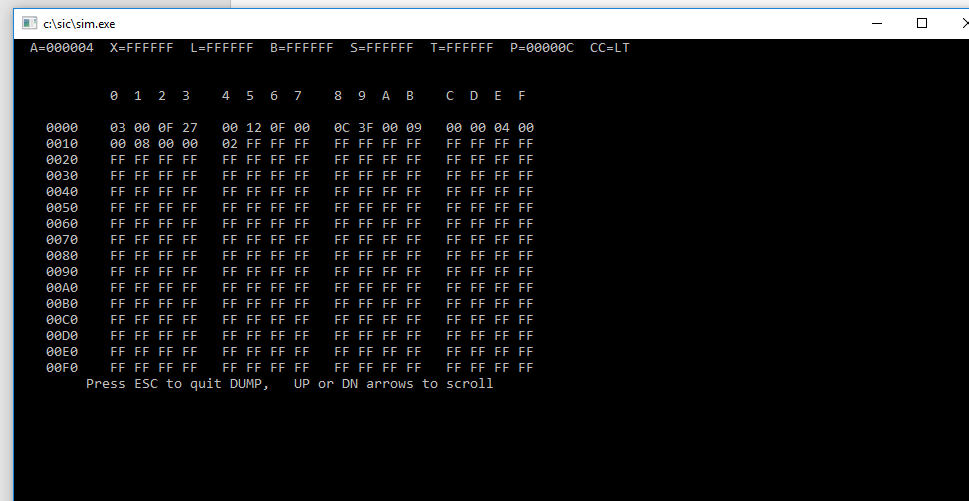
1. Assembling:



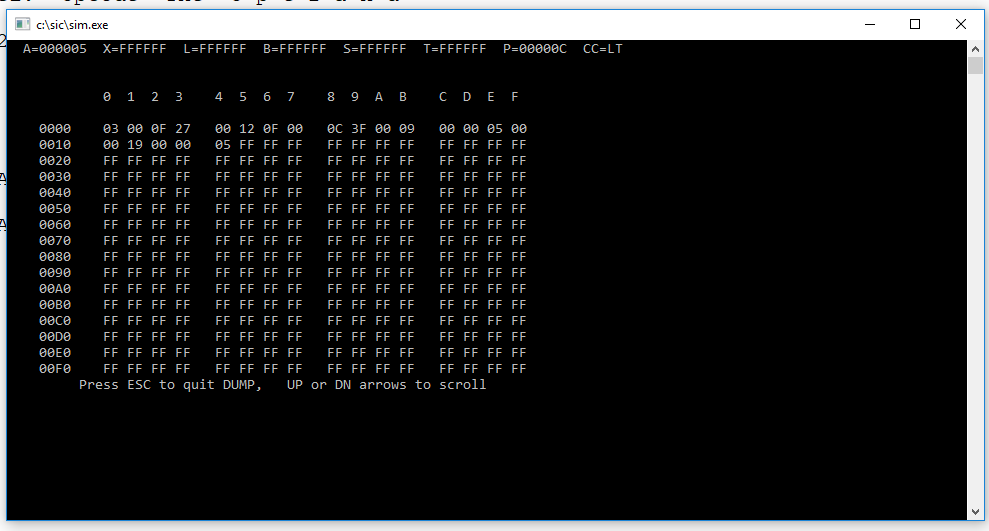


1. Sample run:

Beta = 8 gamma = 2 then. alpha = 4

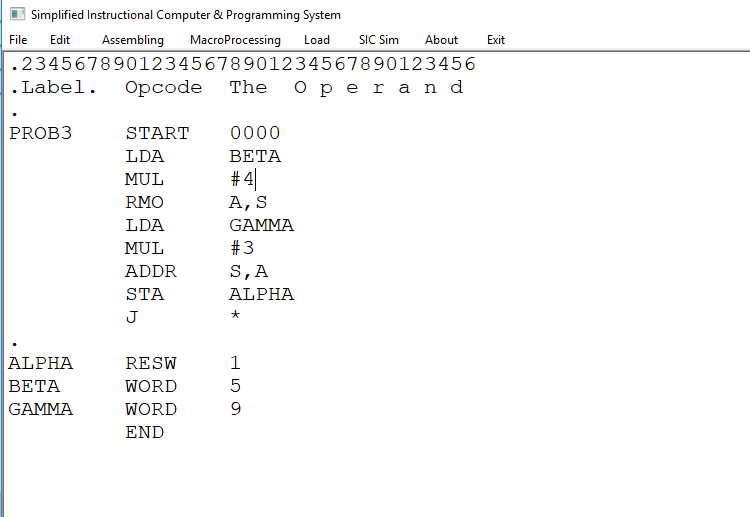


Beta = 25 gamma = 5 then alpha = 5

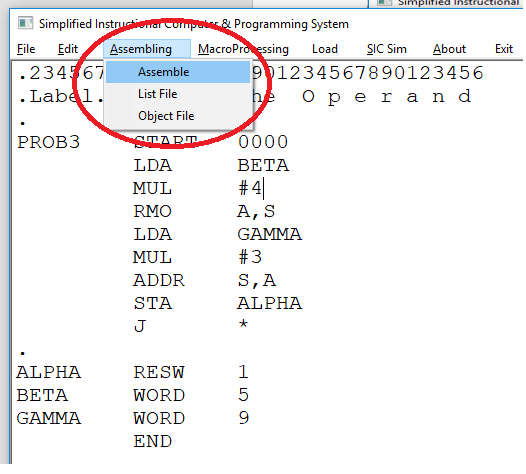


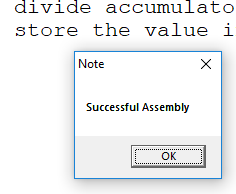
1. Set ALPHA equal to 4 \* BETA + 3 \* GAMMA

1) Code:



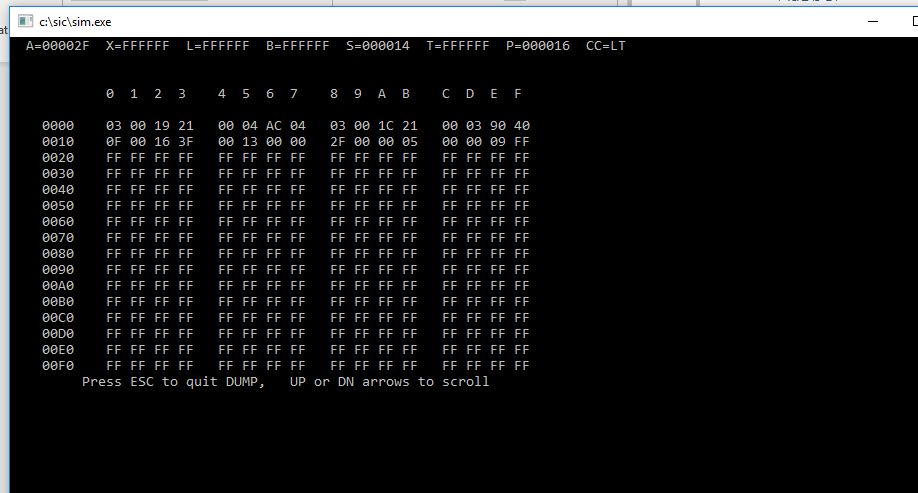
1. Assembling:



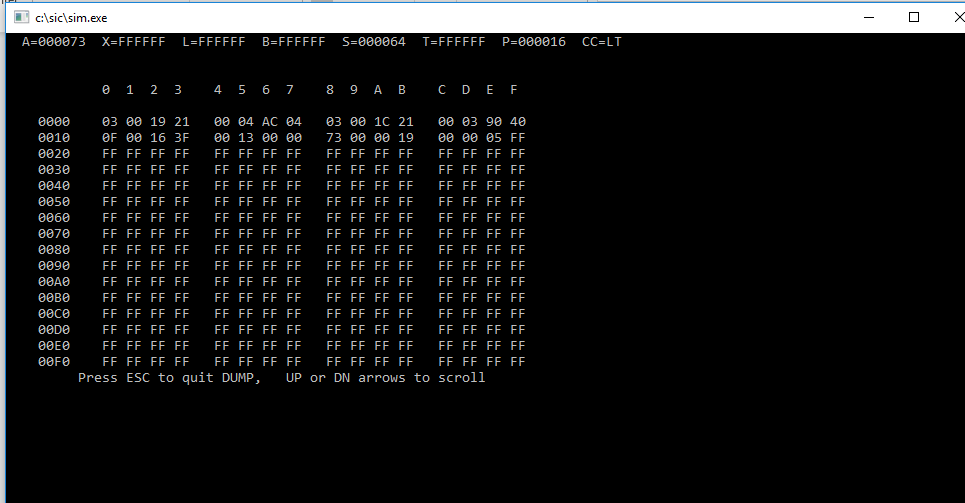


1. Sample run:

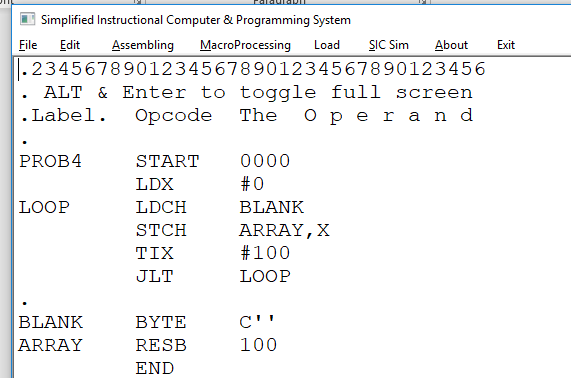
Beta = 5 gamma = 9 then. alpha = 47



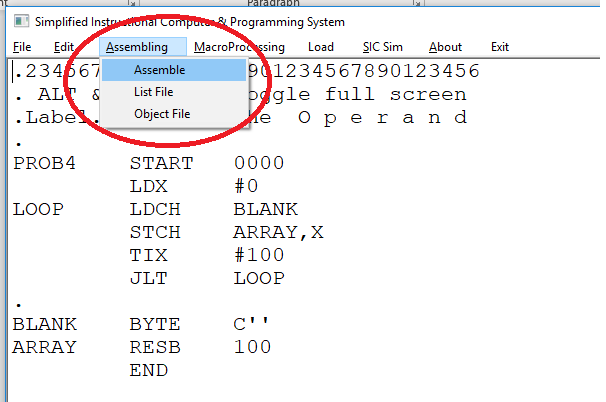
Beta = 25 gamma = 5 then alpha = 5

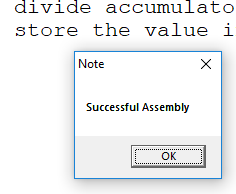


1. Clear a 100-byte string to all blanks:
2. Code:

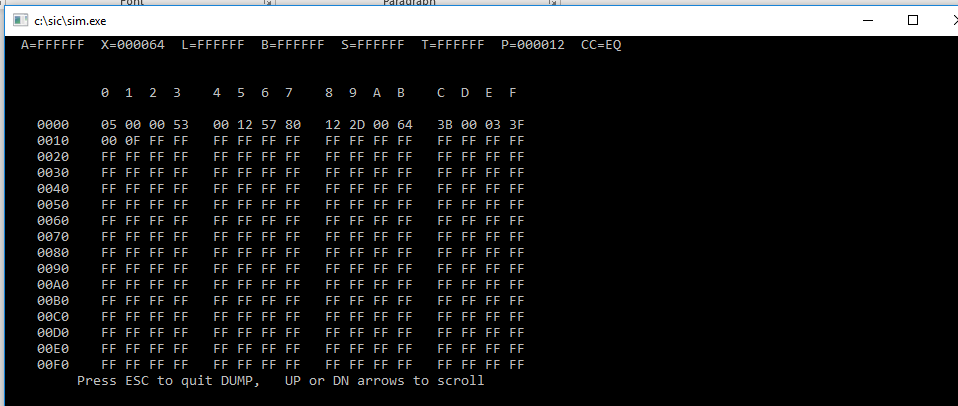


1. Assembling:

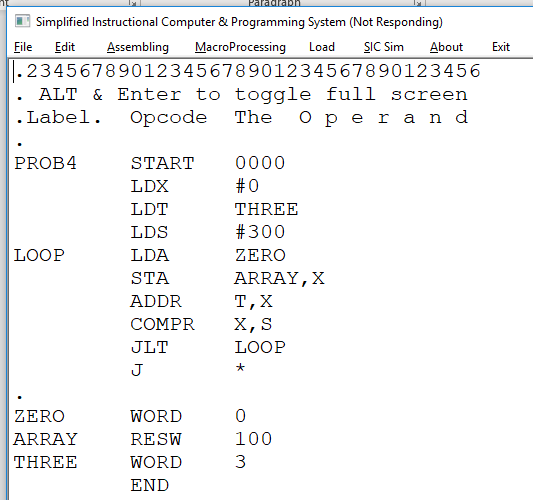




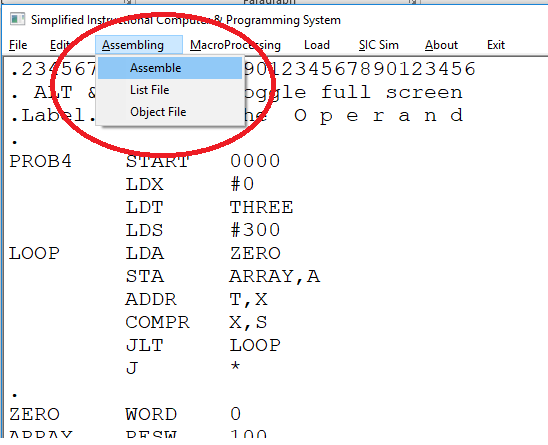
1. Sample run:

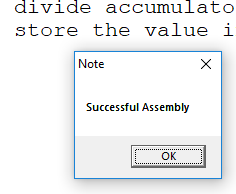


1. SET elements of a 100-word array to 0:
2. Code:

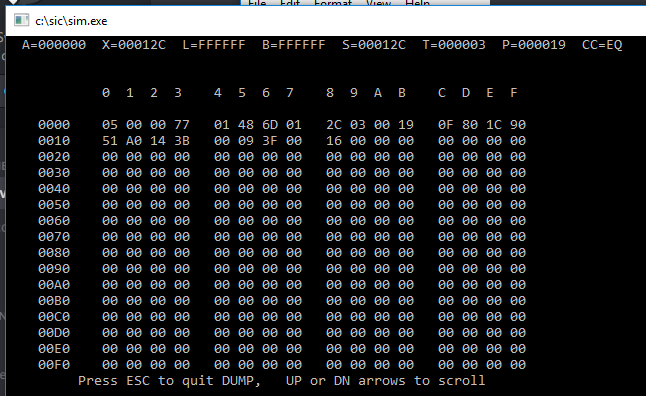


1. Assembling:

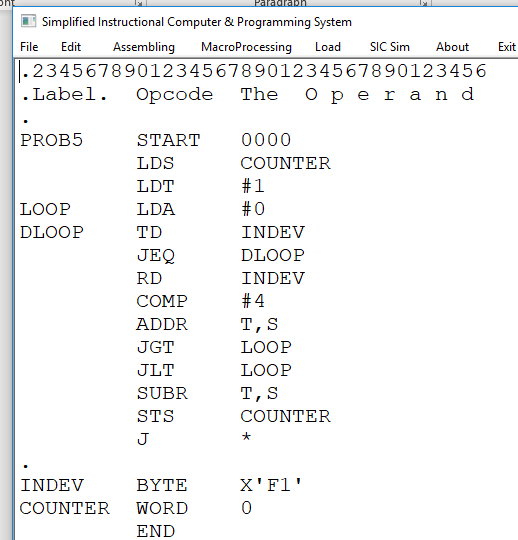




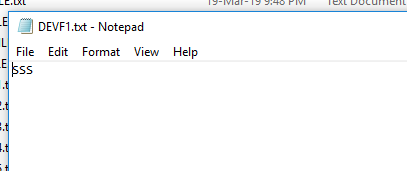
1. Sample run:



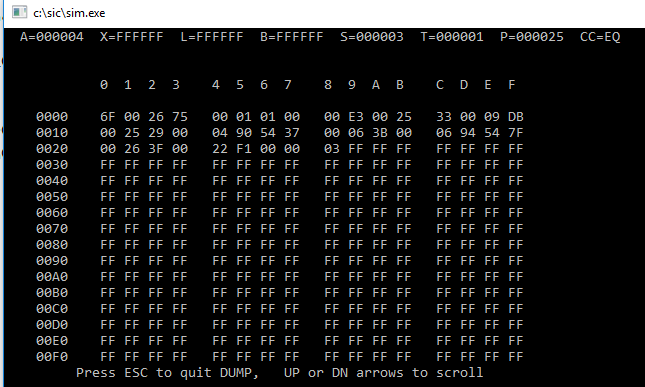
1. Set ALPHA equal to the integer portion of BETA / GAMMA:
2. Code:



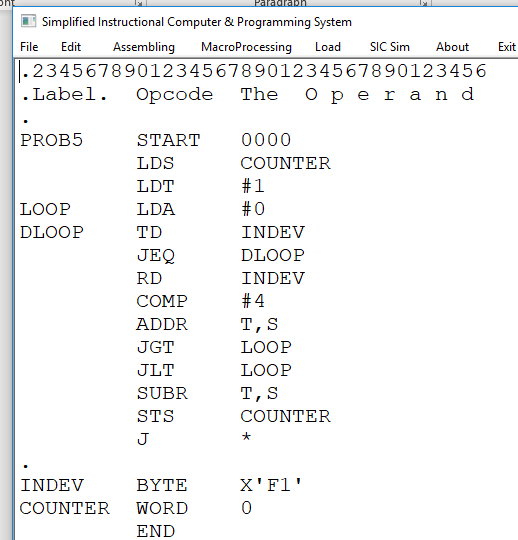
1. Device:



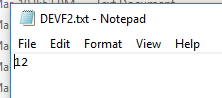
1. Sample run:



1. Read a two-digit number from device F3, convert this string to a number and store the number in register A:
2. Code:



1. Device:



1. Sample run:

