EXP NO: 4

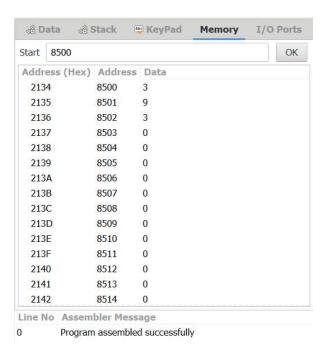
LOOP1: STA 8502

8-BIT DIVISION

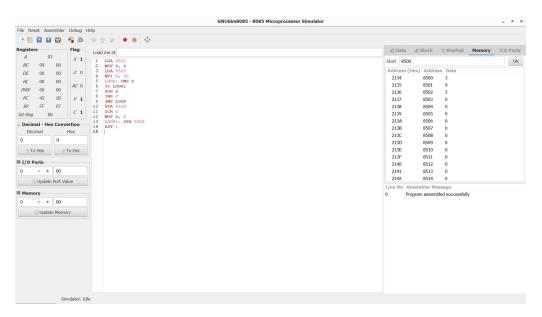
AIM: To write an assembly language program to implement 8-bit division using 8085 processor.

ALGORITHM:
1) Start the program by loading a register pair with the address of memory location.
2) Move the data to a register.
3) Get the second data and load it into the accumulator.
4) Subtract the two register contents.
5) Increment the value of the carry.
6) Check whether the repeated subtraction is over.
7) Store the value of quotient and the reminder in the memory location.
8) Halt.
PROGRAM:
LDA 8501
MOV B, A
LDA 8500
MVI C,00
LOOP:CMP B
JC LOOP1
SUB B
INR C
JMP LOOP
STA 8503
DCR C
MOV A, C

INPUT:



OUTPUT:



RESULT: Thus the program was executed successfully using 8085 processor simulator.