### **8-BIT DIVISION**

## **EXP NO: 4**

**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

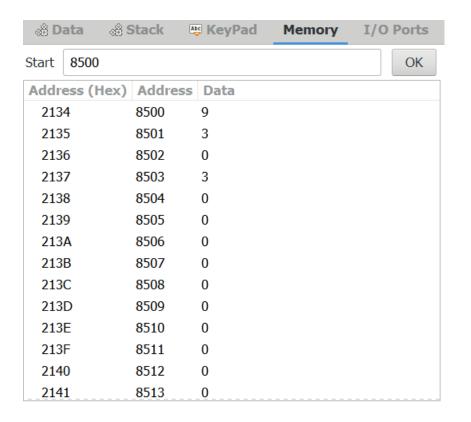
the value of quotient and the reminder in the memory location.

8) Halt.

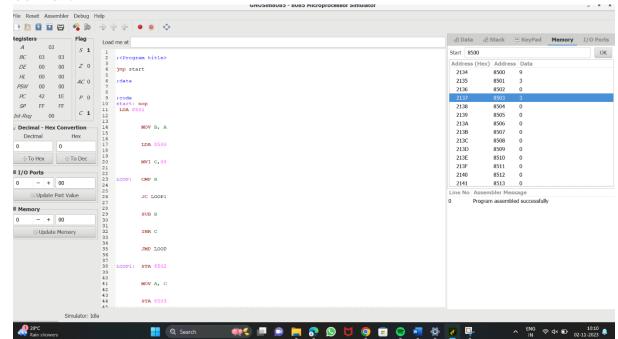
# LDA 8501 MOV B, A LDA 8500 MVI C,00 LOOP: CMP B JC LOOP1 SUB B INR C JMP LOOP LOOP1: STA 8502 MOV A, C STA 8503 RST 1

INPUT:

PROGRAM:



#### **OUTPUT:**



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