8-BIT DIVISION

EXP NO: 4

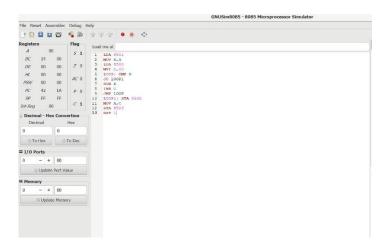
AIM:To write an assembly language program to implement 8-bit division using 8085 processor.

ALGORITHM:

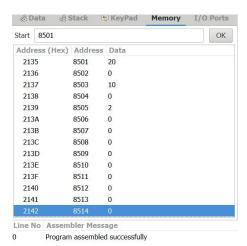
- 1) Start the program by loading a register pair with the address of memory location.
- 2) Move the data to a register.
- 3) Get the second data and load it into the accumulator.
- 4) Subtract the two register contents.
- 5) Increment the value of the carry.
- 6) Check whether the repeated subtraction is over.
- 7) Store the value of quotient and the reminder in the memory location.
- 8) Halt.

PROGRAM:

```
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:
```



OUTPUT:



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