

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 remainder 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

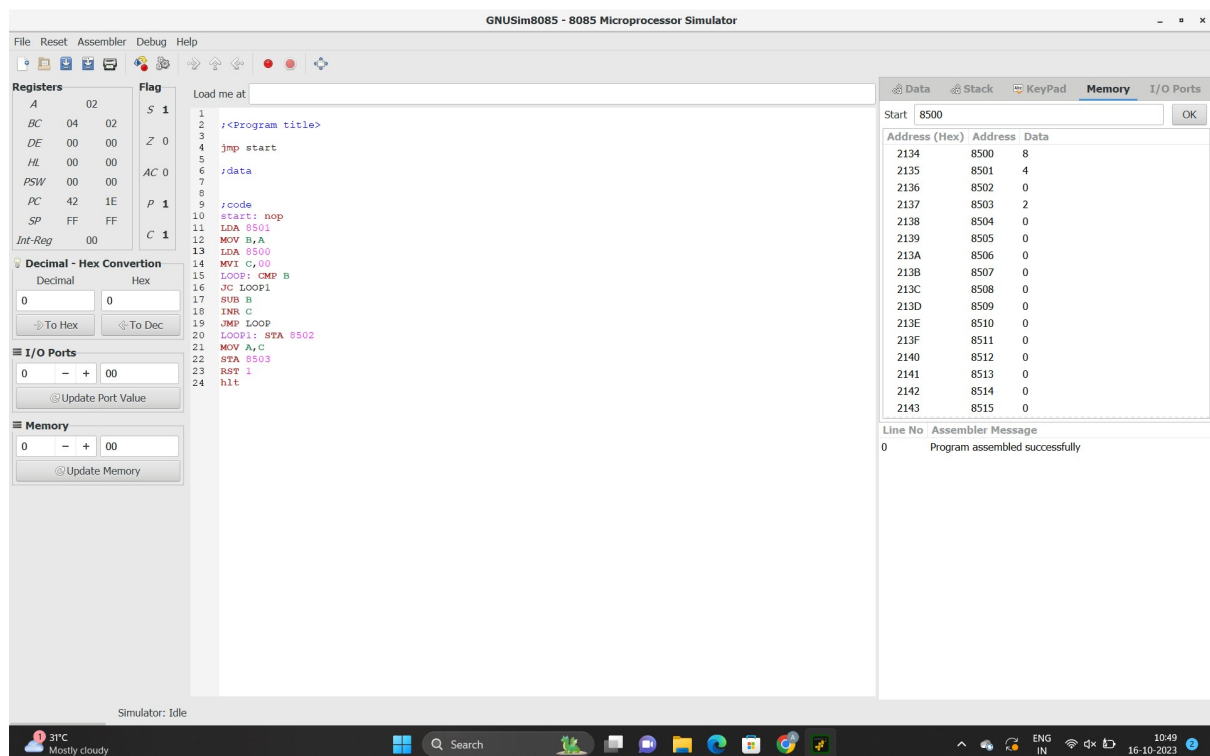
STA 8503

RST 1

INPUT:

2134	8500	8
2135	8501	4

OUTPUT:



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