

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	1
MOV B,	1
LDA 8500 MVI C,00 LOOP: CMP	12
JC LOOP1 SUB	12
INR C JMP LOOP STA 8503 DCR	12
MOV A,	12
LOOP1: STA 8502	
RST 1	

INPUT:

