16-BIT SUBTRACTION

EXP NO: 6

NIM: To
พท. To vrite an assembly language program to implement 16-bit subtraction using 808เ
processor.

ALGORITHM:

- 1) Start the program by loading a register pair with address of 1st number.
- 2) Copy the data to another register pair.
- 3) Load the second number to first registre pair.
- 4) Subtract the two register pair contents.
- 5) Check for borrow.
- 6) Store the value of difference and borrow in memory locations.
- 7) End.

PROGRAM:

LHLD

2050

XCHG

LHLD

2052

MVI C,00

MOV A, E

SUB L

STA 2054

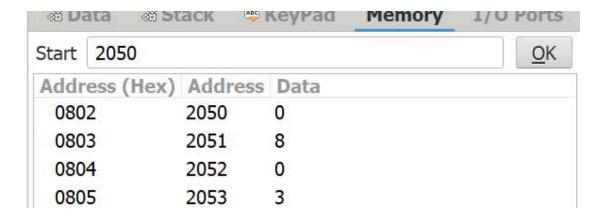
MOV A, D

SUB H

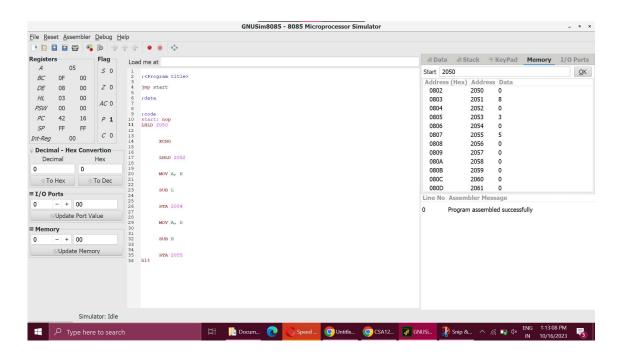
STA 2055

HLT

INPUT:



OUTPUT:



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