16-BIT SUBTRACTION

EVD	NIO.	-
-xP	M(),	h

AIM: To write an assembly language program to implement 16-bit subtraction using 8085 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

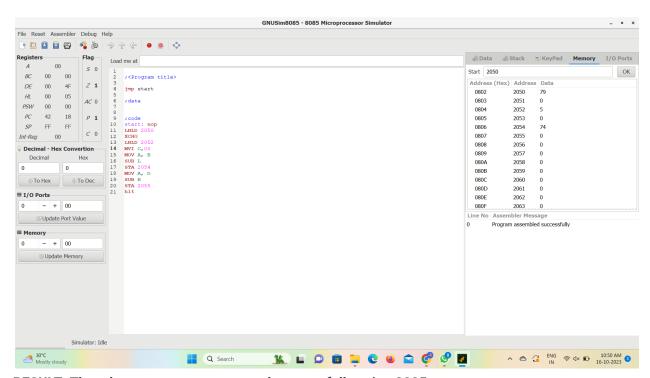
STA 2055

HLT

INPUT:

Address (Hex)	Address	Data
0802	2050	79
0803	2051	0
0804	2052	5
0805	2053	0

OUTPUT



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