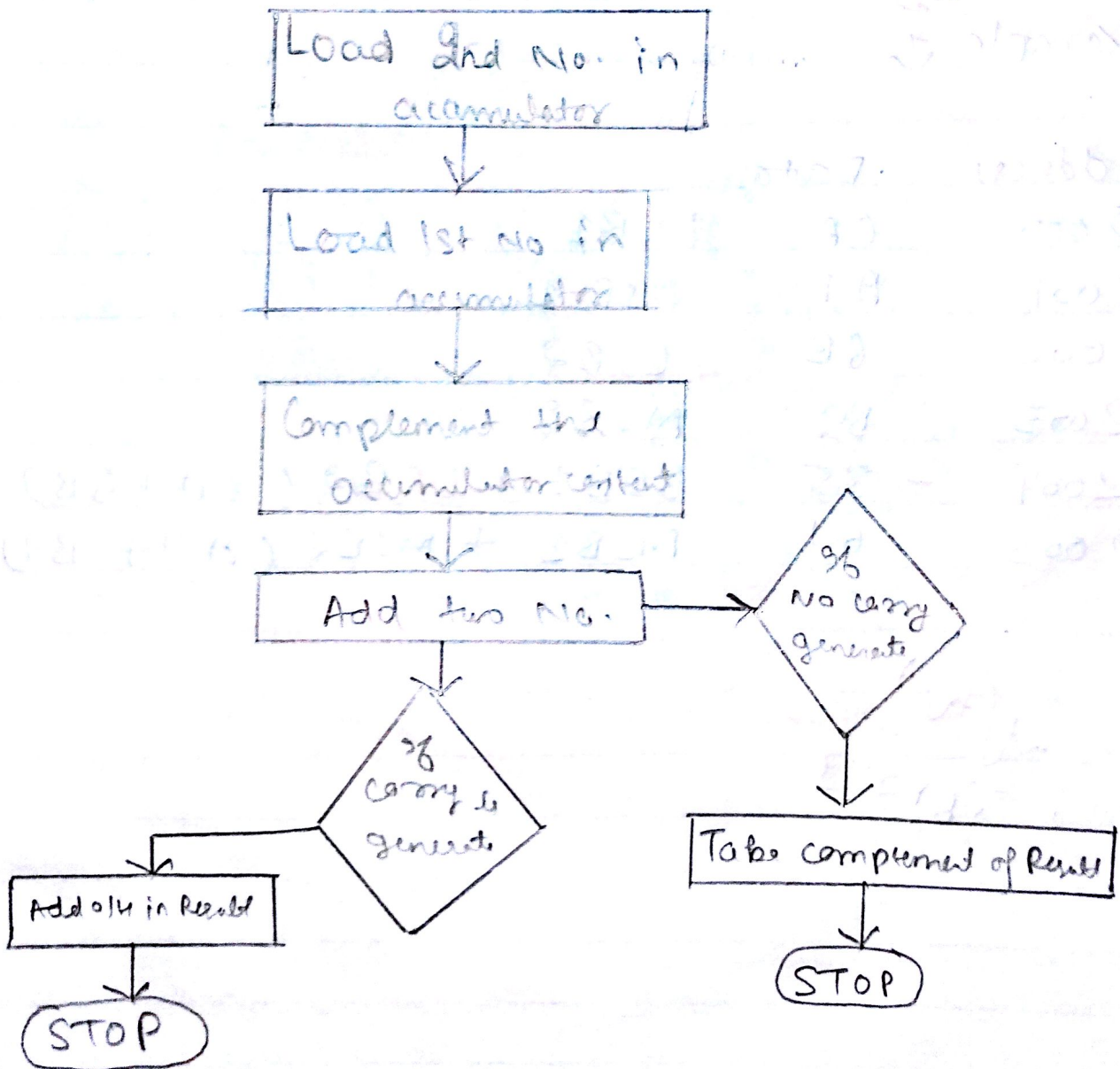


Practical No - 3

AIM: Subtraction of two 8bit numbers in 8085 microprocessor.

Flow chart ↓



Practical No-4

Aim: Subtraction of two 8 bit numbers in 8085 microprocessor

Description: This program subtract two 8 bit numbers and result is stored at given address of particular memory

Steps:

- 1) Start the program by loading the first data into accumulator.
- 2) Mov the data to a register (8 bit)
- 3) Get the second number data & load into the accumulator
- 4) Perform the subtraction operation.
- 5) If carry is generated, Add 01 in the result & stop the program
- 6) Otherwise, if no carry is present then take the complement of result & stops the program.

Program:

- 1) MVI A, 08H
- 2) MVI B, 09H
- 3) CMA // Complement the content of Accumulator
- 4) ADD B
- 5) JC → 8 // Jump carry to step no. 8.
- 6) CMA
- 7) STA, 2002H // Storing the result at 2002H local
- 8) ADI 01H
- 9) STA, 2000H

10) HLT / Stop the program

Example ↓

1st No - 09H

2nd No - 08H

Output - 01H

Result: Thus the program to subtract two 8 bit numbers was executed.