



NAME - RAJDEEP JAISWAL

UID-20BCS2761

BRANCH - CSE

SUBJECT - MPI

SECTION - 615 'B'

1. Aim/Overview of the practical:

Complement of a number 8 bit data

2. Task to be done:

- 1. 1's Complement of a number 8 bit data using Jubin Application.
- 2. 2's Complement of a number 8 bit data using Jubin Application.

3.Apparatus/Simulator used :

1. Jubin Application

4.Algorithm/Flowchart:

1's Complement:

- 1. Load H L pair with address 1000H.
- 2. Complement Accumulator.
- 3. Store the result at memory location 1050H.
- 4. Terminate the program.

2's Complement:

- 1. Load H L pair with address 1000H.
- 2. Complement Accumulator.







- 3. Store the result at memory location 1050H.
- 4. Increase Accumulator by 1.
- 5. Store the memory location 1051H.
- 6. Terminate the program.

5. Description/Code:

1's Complement:

LDA 1000H

CMA

STA 1050H

HLT

2's Complement:

LDA 1000H CMA

STA 1050H INR A

STA 1051H

HLT

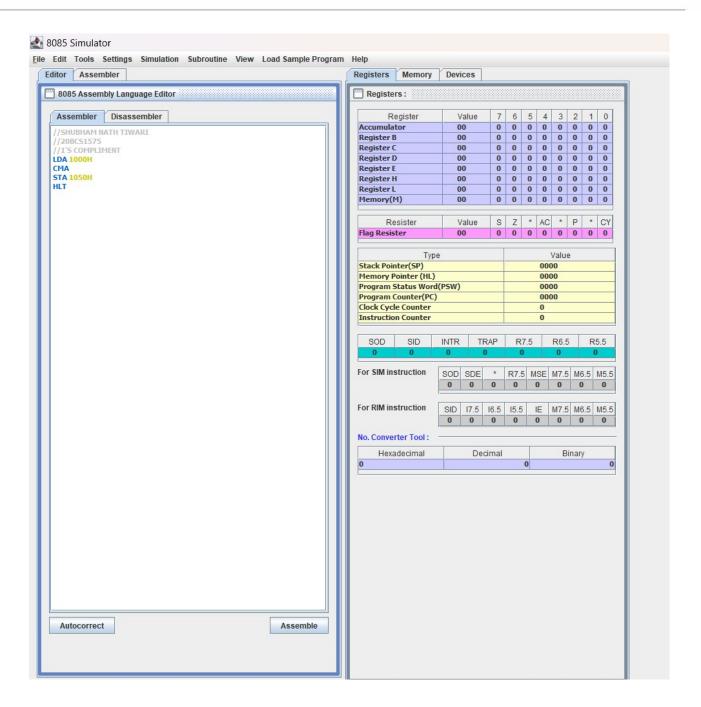
6. Result/Output/Writing Summary:

1's Complement:





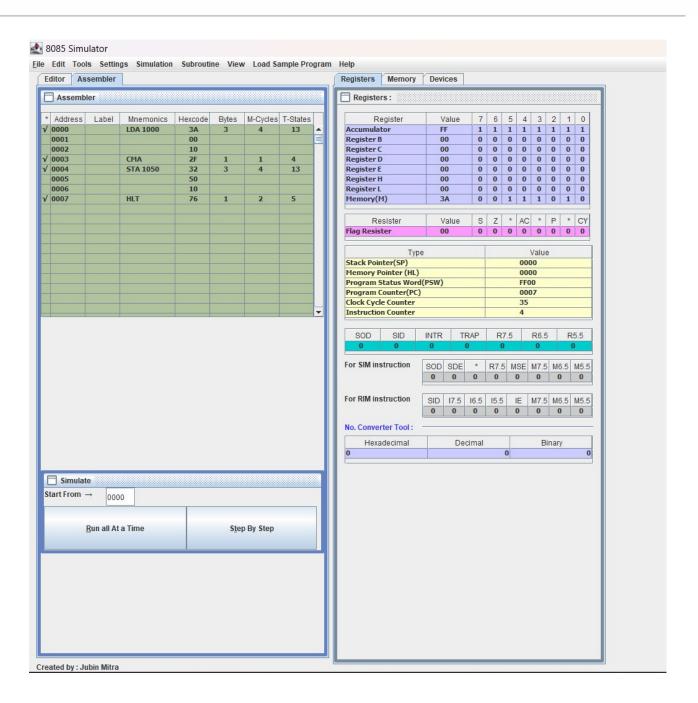








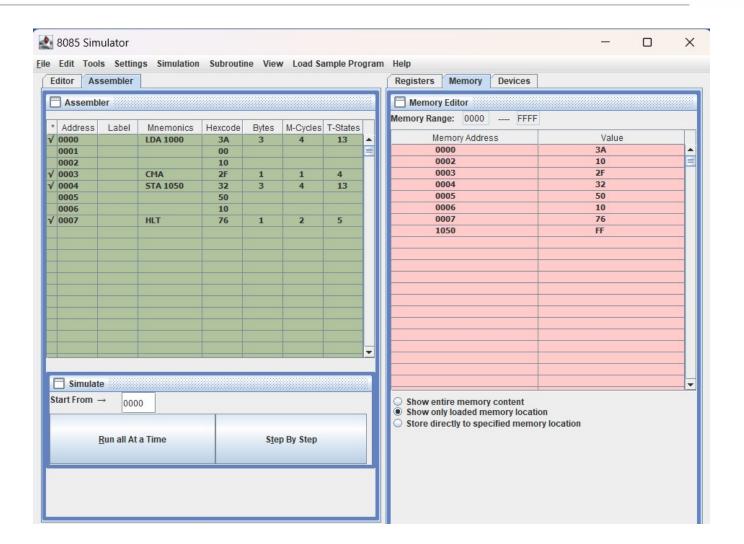








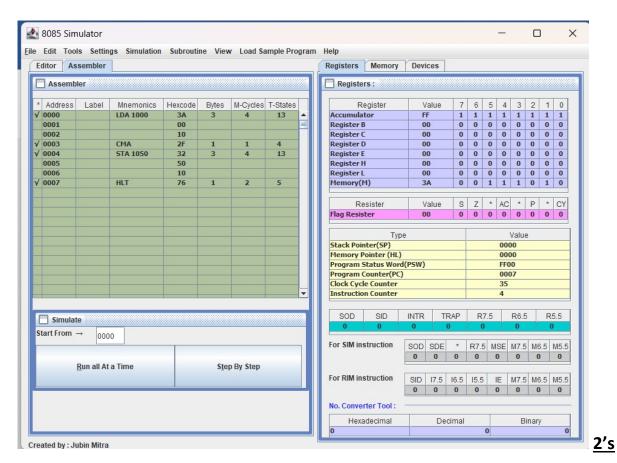










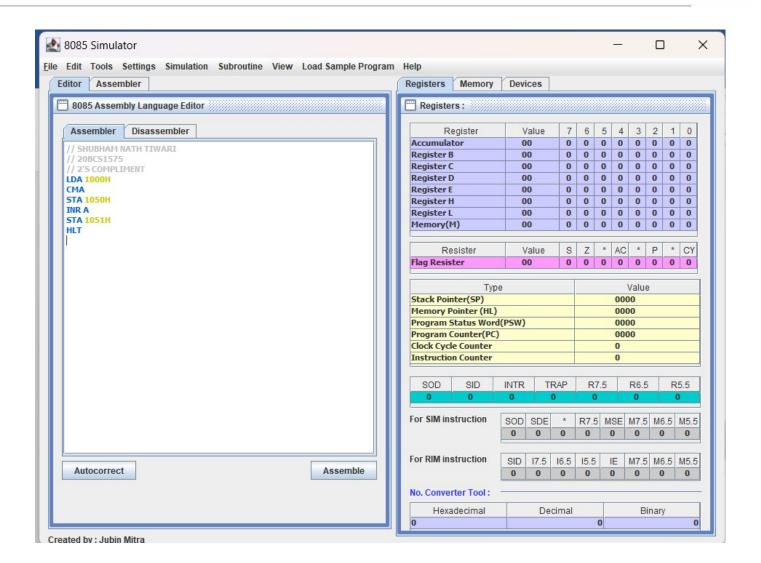


Complement:





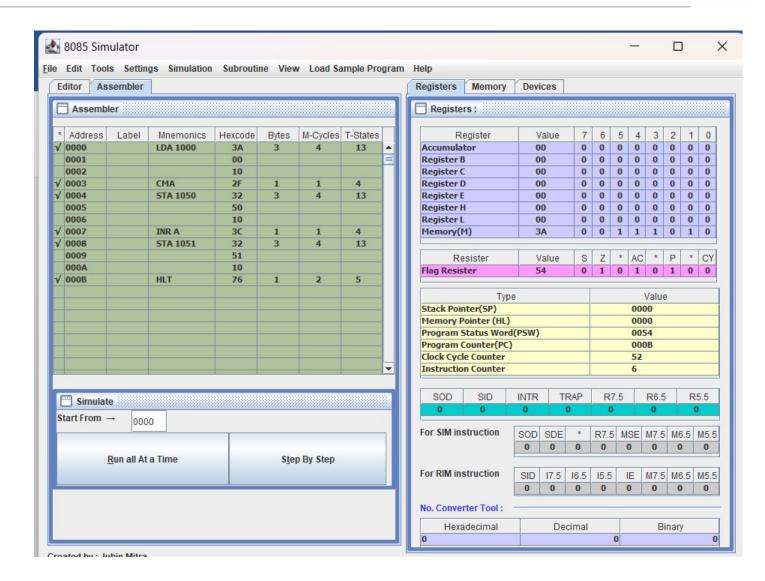








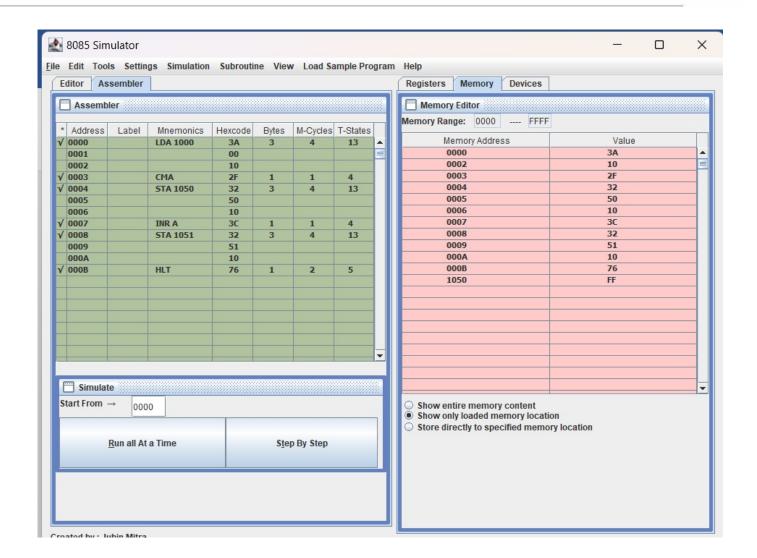












Learning outcomes (What I have learnt):

- 1. Working of microprocessors.
- 2. Learn how to complement data in microprocessors.
- 3. Learn about 8085 simulator.
- 4. Operations of 8 bit numbers.
- 5. Learn about the different instructions that are needed to be given to the memory to perform some tasks.

