



Experiment: 5

Student Name: Ashish Sharma UID: 19BCS1696

Branch: CSE Section/Group: 5/C

Semester: 4th Subject Name: MPI lab Date Performance:19-03-21 Subject Code:CSP-277

1. Aim/Overview of the practical: 1's complement of 8 bit number, 2's complement of 8 bit number

- 2. Task to be done: Finding 1's and 2's compliment of 8 bit numbers
- 3. Apparatus/Simulator used (For applied/experimental sciences/materials

Jubin 8085 simulator used.





4. Algorithm/Flowchart (For programming based labs):

There is a simple algorithm to convert a binary number into 1's complement. To get 1's complement of a binary number, simply invert the given number. You can simply implement logic circuit using only NOT gate for each bit of Binary number input. Implementation of logic circuit of 4-bit 1's complement is given as following below.

5. Description/ Code:1's complement of 8 bit number

LDA 7500H CMA STA 7000H HLT #ORGIN 7500H #DB 85H

2's complement of 8 bit number

LDA 7500H CMA INR A STA 7000H HLT #ORGIN 7500H #DB 85H

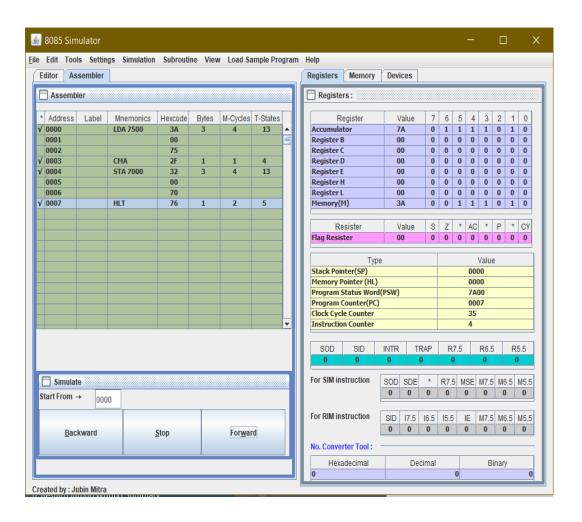




6. Result/Output/Writing

Summary: 1's complement of 8

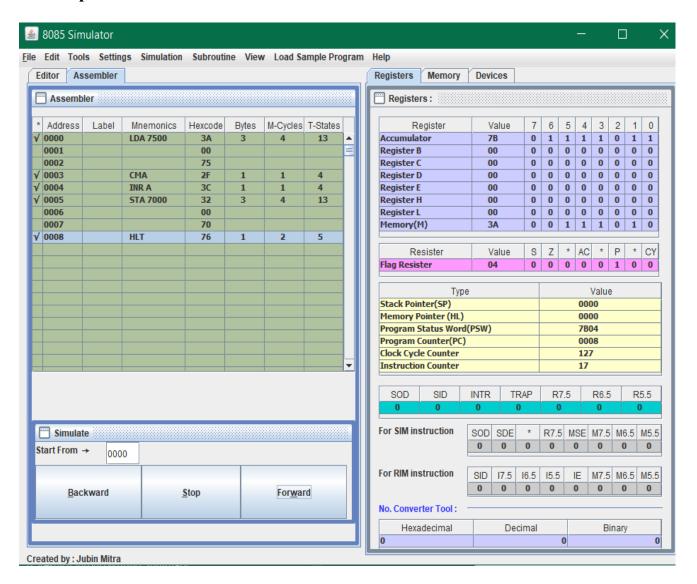
bit number







2's complement of 8 bit number







Learning outcomes (What I have learnt):

- 1. Learned about 1's compliment
- 2. Learned about 2's compliment
- 3. Learned about how to work on Jubin.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			